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› SUGON 8650Pro Hot Air Rework Station User Manual

## SUGON 8650Pro

# SUGON 8650Pro Hot Air Rework Station User Manual

Model: 8650Pro

## 1. INTRODUCTION

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This manual provides essential instructions for the safe and efficient operation of your SUGON 8650Pro Hot Air Rework Station. Please read this manual thoroughly before use and retain it for future reference.

### Product Features:

- 1300W high power for rapid heating.
- Digital display for precise temperature and air volume control.
- Three temperature rise models: Gentle, General, and Rapid.
- Four groups of preset memory for temperature and air volume.
- Automatic sleep function for energy saving and safety.
- Detachable handle and pluggable heating element for easy maintenance.
- Adjustable handle bracket with dual air gun station mode and multi-air gun nozzle bracket mode.
- Includes 9 different air gun nozzles for various applications.

## 2. SAFETY INSTRUCTIONS

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Always observe the following safety precautions to prevent injury or damage to the equipment:

- Ensure the power supply matches the unit's voltage (110V for this model).
- Do not operate the unit in damp or wet conditions.
- Keep the work area well-ventilated to avoid inhaling fumes.
- Wear appropriate personal protective equipment (PPE), including safety glasses and heat-resistant gloves.

- Do not touch the hot air nozzle or heated components during or immediately after operation.
- Place the hot air gun in its holder when not in use to prevent accidental burns or damage.
- Disconnect power before cleaning or servicing the unit.
- Keep out of reach of children.

### 3. PRODUCT COMPONENTS

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The SUGON 8650Pro Hot Air Rework Station includes the following main components:

- Main Control Unit
- Hot Air Gun Handle
- Hot Air Gun Holder/Bracket
- Various Nozzles (9 pcs)
- Power Cord
- Ground Cable
- Screwdriver
- Heating Core (Spare)



**Figure 3.1:** Overview of the SUGON 8650Pro Hot Air Rework Station, showing the main unit, hot air gun, holder, and various nozzles.



Figure 3.2: Close-up view illustrating the detachable handle and the pluggable heating element for easy replacement.

With the new linear handle, the temperature can be controlled and locked by the handle, which is more convenient to use.



The four buttons correspond to four groups of memory storage temperature and wind speed, and can be switched with one button.



Short press the button to switch between cold air/hot air, and long press to lock the button.

Figure 3.3: The adjustable handle bracket, configurable for supporting one or two air gun handles and storing multiple nozzles.

## 4. SETUP INSTRUCTIONS

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any damage.
2. **Placement:** Place the main control unit on a stable, heat-resistant, and level surface. Ensure adequate ventilation around the unit.
3. **Connect Hot Air Gun:** Connect the hot air gun handle to the designated port on the main control unit. Ensure a secure connection.
4. **Install Handle Bracket:** Assemble the hot air gun holder/bracket according to your preference (single or dual gun mode). Place it near the main unit.
5. **Attach Nozzle:** Select the appropriate nozzle for your application and securely attach it to the hot air gun.
6. **Power Connection:** Connect the power cord to the main control unit and then plug it into a grounded 110V

AC power outlet.

7. **Grounding:** Connect the ground cable to the designated grounding terminal on the unit and to a reliable ground source.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Power On/Off

- Press the power switch on the front panel to turn the unit ON. The digital display will illuminate.
- To turn OFF, press the power switch again. The unit will enter a cooling cycle before fully shutting down.

### 5.2 Temperature and Air Volume Adjustment

- Use the **UP/DOWN** buttons next to the temperature display to adjust the desired temperature.
- Use the **UP/DOWN** buttons next to the air volume display to adjust the desired air flow.
- The current temperature and air volume will be shown on the digital display.

# HAVE A HANDLE ON

Easy control of all environmental maintenance

TEMPERATURE RANGE: 100°C~550°C

WIND CONTROL: 0-200

Equipped with 9 wind gun nozzle,  
more accurate welding.



Direct air nozzle\*4



Square mouthpiece\*2、Oblique air nozzle\*3



Figure 5.1: The hot air gun handle features buttons for memory recall and switching between cold/hot air. Short press to switch, long press to lock.

## 5.3 Temperature Rise Modes

The unit offers three distinct temperature rise modes:

- **Gentle Mode:** Slow and precise heating, suitable for beginners or delicate components.

- **General Mode:** Faster heating with maintained accuracy, suitable for general maintenance tasks.
- **Rapid Mode:** Quick temperature rise to reach the set temperature rapidly, ideal for experienced technicians.



**Gentle mode** The heating speed is slow and very precise, suitable for novices who have little control over the temperature.

**General mode:** the heating speed is faster and the accuracy is maintained, which is suitable for maintenance masters with certain experience.

**Rapid mode:** The temperature rises quickly and can quickly reach the set temperature, which is suitable for experienced maintenance technicians.

Figure 5.2: Digital display showing the selection of Gentle, General, or Rapid temperature rise modes, with descriptions of each mode's characteristics.

## 5.4 Memory Presets

The SUGON 8650Pro allows you to store and recall up to four groups of preset temperature and air volume settings.

- **To Save:** Set your desired temperature and air volume. Press and hold one of the memory buttons (CH1, CH2, CH3, CH4) until a confirmation sound is heard.
- **To Recall:** Briefly press the corresponding memory button (CH1, CH2, CH3, CH4) to load the saved settings.

## 5.5 Automatic Sleep Function

When the hot air gun is placed in its holder, the unit will automatically enter sleep mode after a set period. The temperature will decrease to a safe level, and the air flow will stop. Lifting the gun from the holder will resume operation with the last used settings.

## 5.6 Cool Air Function

The hot air gun handle features a button to switch between hot and cool air. A short press will toggle between the two. A long press will lock the selected mode.

# 6. MAINTENANCE

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## 6.1 Cleaning

- Ensure the unit is powered off and unplugged before cleaning.
- Wipe the exterior of the main unit and hot air gun with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Periodically inspect nozzles for blockages and clean as necessary.

## 6.2 Heating Element Replacement

The heating element is a consumable part and may need replacement over time. Refer to Figure 3.2 for visual guidance.

1. Ensure the unit is completely cool, powered off, and unplugged.
2. Carefully detach the hot air gun handle from the main unit.
3. Unscrew the retaining ring on the hot air gun handle to expose the heating element.
4. Gently pull out the old heating element.
5. Insert the new heating element, ensuring it is properly seated.
6. Reattach the retaining ring and reconnect the handle to the main unit.

# 7. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Unit does not power on.	No power supply; loose power cord.	Check power cord connection; ensure outlet is functional.
No hot air or insufficient heat.	Faulty heating element; incorrect temperature setting.	Check temperature setting; replace heating element if necessary.
No air flow or weak air flow.	Air volume set too low; blocked nozzle; fan malfunction.	Increase air volume; clean or replace nozzle; contact support if fan issue persists.
Temperature fluctuates erratically.	Sensor issue; unstable power supply.	Ensure stable power; contact support for sensor diagnosis.

## 8. SPECIFICATIONS

# PRODUCT PARAMETER



8650Pro mainframe\*1、Controller\*1



Wind gun placement bracket\*1



Heating core\*1、Air gun nozzle\*9



Spare support\*1、Support fitting\*1



Manual\*1、warranty card\*1



Ground cable\*1、Screwdriver\*1



Power cord \*1



Paper box\*1

**PRODUCT BRAND:**  
**SUGON**

**MODEL NUMBER:**  
8650Pro

**POWER:**  
1300W

**INPUT VOLTAGE:**  
AC 110V-AC 220V/50Hz-60Hz

**AIR VOLUME RANGE:**  
0-200speed

**TEMPERATURE RANGE:**  
100°C-550°C/212°F-1022°F

**SIZE:**  
250\*250\*160mm

**OPERATING TIME OF ROC MODE:**  
There are three segments each  
of 330 seconds maximum

Figure 8.1: Detailed product parameters for the SUGON 8650Pro Hot Air Rework Station.

Parameter	Value
Model Number	8650Pro
Power	1300W
Input Voltage	AC 110V (for this model)
Air Volume Range	Grade 1-200
Temperature Range	100°C - 550°C (212°F - 1022°F)
Dimensions (Main Unit)	250mm x 250mm x 160mm (approx.)
Operating Time of ROC Mode	Three segments, each 330 seconds maximum
Features	Digital Display, Temperature Calibration/Conversion, 3 Temperature Rise Models, Adjustable Handle Bracket, 4 Memory Presets, Cool Air Function, Buzzer, Automatic Sleep Function.

## 9. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the warranty card included with your product or contact your point of purchase. Keep your purchase receipt as proof of purchase.

Manufacturer: AIFEN/SUGON

For further assistance, please visit the official SUGON website or contact their customer service department.