SUGON 8620DX Pro 110V

SUGON 8620DX Pro 110V Hot Air Rework Station User Manual

Model: 8620DX Pro 110V

Manufacturer: AIFEN/SUGON

1. Introduction

Thank you for choosing the SUGON 8620DX Pro 110V Hot Air Rework Station. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your device. Please read this manual thoroughly before use and keep it for future reference.

1.1 Safety Precautions

- Always operate the rework station in a well-ventilated area.
- Do not touch the hot air gun nozzle or heated components during or immediately after operation, as they can cause severe burns.
- Ensure the power supply matches the specified voltage (110V for this model).
- Keep flammable materials away from the working area.
- Unplug the device from the power outlet when not in use or before performing any maintenance.
- Do not use the device if the power cord or any part of the unit is damaged.
- This device is intended for professional use. Keep out of reach of children.

2. Product Overview

The SUGON 8620DX Pro is a high-performance hot air rework station designed for precise BGA welding and repair tasks. It features microcomputer temperature control, rapid heating, and a user-friendly interface.

2.1 Key Features

- **High Power Output:** 1300W for rapid heating and efficient operation.
- **Wide Temperature Range:** Adjustable from 100°C to 500°C.
- **Adjustable Air Volume:** Grade 1 to 200 for precise control over airflow.
- **Microcomputer Control:** Ensures stable and accurate temperature.
- **Large LED Displays:** Three clear displays for set temperature, actual temperature, and air volume.
- **Memory Channels:** Four programmable channels (CH1-CH4) for quick recall of preferred settings.
- **Pluggable Heating Core:** Facilitates easy replacement and maintenance.
- **Automatic Sleep Function:** Enhances safety and extends heating element lifespan.
- **Temperature Calibration:** Allows for fine-tuning of temperature accuracy.

2.2 Components

The package typically includes the main control unit, hot air gun, hot air gun stand, power cord, and various nozzles.



Figure 2.1: SUGON 8620DX Pro 110V Hot Air Rework Station with control unit, hot air gun, stand, and various nozzles.



Figure 2.2: The pluggable heating core design allows for quick and easy replacement, enhancing convenience and reducing downtime.



Figure 2.3: The control unit features three large LED screens, providing clear and accurate real-time display of set temperature, actual temperature, and air volume.

3. Setup

3.1 Unpacking and Inspection

1. Carefully remove all components from the packaging.
2. Inspect all items for any signs of damage during transit. If any damage is found, contact your supplier immediately.
3. Ensure all listed components are present.

3.2 Assembly and Connection

1. Place the main control unit on a stable, heat-resistant surface.
2. Connect the hot air gun to the designated port on the front panel of the control unit. Ensure a secure connection.
3. Position the hot air gun stand in a convenient location near the control unit. The stand is designed to hold the hot air gun safely when not in use and to activate the automatic sleep function.
4. Select the appropriate nozzle for your application and attach it securely to the hot air gun.
5. Connect the power cord to the back of the control unit and then plug it into a grounded 110V AC power outlet.



Figure 3.1: The adjustable multi-angle stand provides flexible positioning for the hot air gun, ensuring stable and safe operation.

4. Operation

4.1 Powering On/Off

- To power on, press the main power switch located on the front panel. The LED displays will illuminate.
- To power off, press the main power switch again. The unit will cool down before completely shutting off if the hot air gun is out of its stand.

4.2 Adjusting Temperature and Air Volume

1. Use the **TEMP** up/down buttons to adjust the desired temperature. The set temperature will be displayed on the left LED screen.
2. Use the **AIR** up/down buttons to adjust the desired air volume (Grade 1-200). The air volume will be displayed on the right LED screen.
3. The middle LED screen displays the actual temperature of the hot air gun.



Figure 4.1: Detailed view of the control panel, showing the setting temperature, actual temperature, and air volume displays, along with memory buttons (CH1-CH4).



Figure 4.2: The hot air gun allows for precise adjustment of air flow from 1 to 200 and a temperature range of 100°C to 500°C, suitable for various welding tasks.

4.3 Using Memory Channels (CH1-CH4)

1. Set your desired temperature and air volume.
2. Press and hold one of the **CH1, CH2, CH3, or CH4** buttons for a few seconds until a beep sounds, indicating the settings are saved to that channel.
3. To recall saved settings, simply press the corresponding channel button (CH1-CH4).

4.4 Automatic Sleep Function

When the hot air gun is placed back into its stand, the unit will automatically enter sleep mode. The heating element will cool down, and the air flow will continue until a safe temperature is reached. This feature conserves energy and prolongs the life of the heating element. Lifting the hot air gun from the stand will resume operation with the last used settings.



Figure 4.3: Demonstration of the rapid heating capability, reaching operating temperature in approximately 3 seconds for efficient rework.

5. Maintenance

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

5.1 Cleaning

- Always unplug the unit and allow it to cool completely before cleaning.
- Wipe the exterior of the control unit and hot air gun with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure the air vents are clear of dust and debris to prevent overheating.

5.2 Nozzle Replacement

Nozzles can be easily changed to suit different applications. Ensure the hot air gun is cool before attempting to change nozzles.

5.3 Heating Core Replacement

The SUGON 8620DX Pro features a pluggable heating core for convenient replacement. If the heating element fails or performance degrades, refer to the manufacturer's instructions for replacing the heating core. Always use genuine replacement parts.

6. Troubleshooting

This section addresses common issues you might encounter. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
Unit does not power on	No power supply; Power cord loose; Main switch off	Check power outlet; Ensure power cord is securely connected; Turn on main power switch.
No heat from hot air gun	Heating element failure; Hot air gun not connected properly	Check hot air gun connection; Replace heating core if necessary (refer to Section 5.3).
No air flow	Air pump failure; Air duct blockage	Check for obstructions in the air duct; Contact customer support if air pump is suspected.
Temperature display inaccurate	Needs calibration; Sensor issue	Perform temperature calibration (refer to operation section); Contact customer support.
Unit enters sleep mode unexpectedly	Hot air gun placed in stand	This is normal operation. Lift the hot air gun from the stand to resume.

7. Specifications

Parameter	Value
Model	8620DX Pro 110V
Power	1300W
Voltage	110V AC
Temperature Range	100°C - 500°C (212°F - 932°F)
Air Volume Range	Grade 1 - 200
Gas Flow	91 L/min
Display Type	LED Digital Display

Parameter	Value
Manufacturer	AIFEN/SUGON
Item Model Number	YQ-Sugon 8620DX Pro 110V

8. Warranty and Support

For warranty information, 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 manufacturer or your authorized dealer. Please have your model number and purchase date available when contacting support.

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