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WINONS WFC0012

WINONS Hot Knife Foam Cutter Tool

MODEL: WFC0012

User Instruction Manual

1. Introduction

The WINONS WFC0012 Hot Knife Foam Cutter Tool is designed for precise and efficient cutting of various foam materials. This manual provides essential information for the safe and effective operation, setup, and maintenance of your tool. Please read all instructions carefully before use.

2. Safety Information

Warning: Improper use of this tool can result in serious injury or property damage. Always follow these safety guidelines.

- **Ventilation:** Operate the foam cutter in a well-ventilated area to avoid inhaling fumes produced during cutting. Foam materials can release smoke and odors when heated.
- **Heat Hazard:** The blades and cutting elements become extremely hot during operation. Avoid direct contact with skin or flammable materials. Allow the tool to cool completely before handling blades or storing.
- **Continuous Operation:** Limit continuous operation to a maximum of 60 minutes to prevent overheating and prolong tool life. Allow the tool to cool down between extended uses.
- **Pressure:** Apply minimal pressure when cutting. Excessive force can damage the blade, the tool, or lead to an uneven cut. Let the heat do the work.
- **Power Source:** Ensure the tool is connected to a compatible AC/DC power source as specified in the technical specifications.
- **Blade Changes:** Always unplug the tool and allow blades to cool before changing or attaching accessories.
- **Storage:** Store the tool and its accessories in the provided case in a dry, safe place, out of reach of children.
- **Cleaning:** Clean the hot tool thoroughly after each use to maintain performance. Do not attempt to clean blades while the tool is powered on or hot, as this can cause electrical shorts or burns.

3. Package Contents

Verify that all items listed below are present in your package.

Figure 3.1: Complete WINONS WFC0012 Hot Knife Foam Cutter Kit. This image displays the main handle, various blades, groover, auxiliary plate, wrench, cleaner, and the storage case.

- 1x 300W Powerful Handle
- 1x 6 inch (15cm) Blade
- 1x 8 inch (20cm) Blade
- 2x 12 inch (30cm) Folded Blade
- 2x Groove Blade
- 1x Groover
- 1x Auxiliary Plate
- 1x Wrench
- 1x Cleaner
- 1x User Manual (this document)
- 1x Warranty Card

- 1x Storage Case

4. Product Features

4.1. Powerful Handle and Ergonomic Design

Figure 4.1: The ergonomic handle of the WINONS foam cutter, designed for comfortable and secure grip during operation.

The tool features a 300W powerful handle designed for efficient cutting. Its ergonomic design ensures a comfortable and secure grip, enhancing control and reducing fatigue during extended use. The integrated hand protection guard further improves safety.

4.2. Numbered Temperature Controller

Figure 4.2: The numbered temperature control dial with 15 distinct settings, allowing precise heat adjustment.

Equipped with a numbered temperature controller offering 15 distinct levels, the WFC0012 allows for precise heat adjustment up to a maximum of 710°C (1310°F). This ensures optimal cutting performance across various foam densities. A blinking light indicator confirms the tool is heating.

4.3. Rapid Heating System

The hot knife heats up rapidly, reaching operational temperature in approximately 20 seconds. This quick readiness minimizes waiting time and improves workflow efficiency.

4.4. Enhanced Safety Features

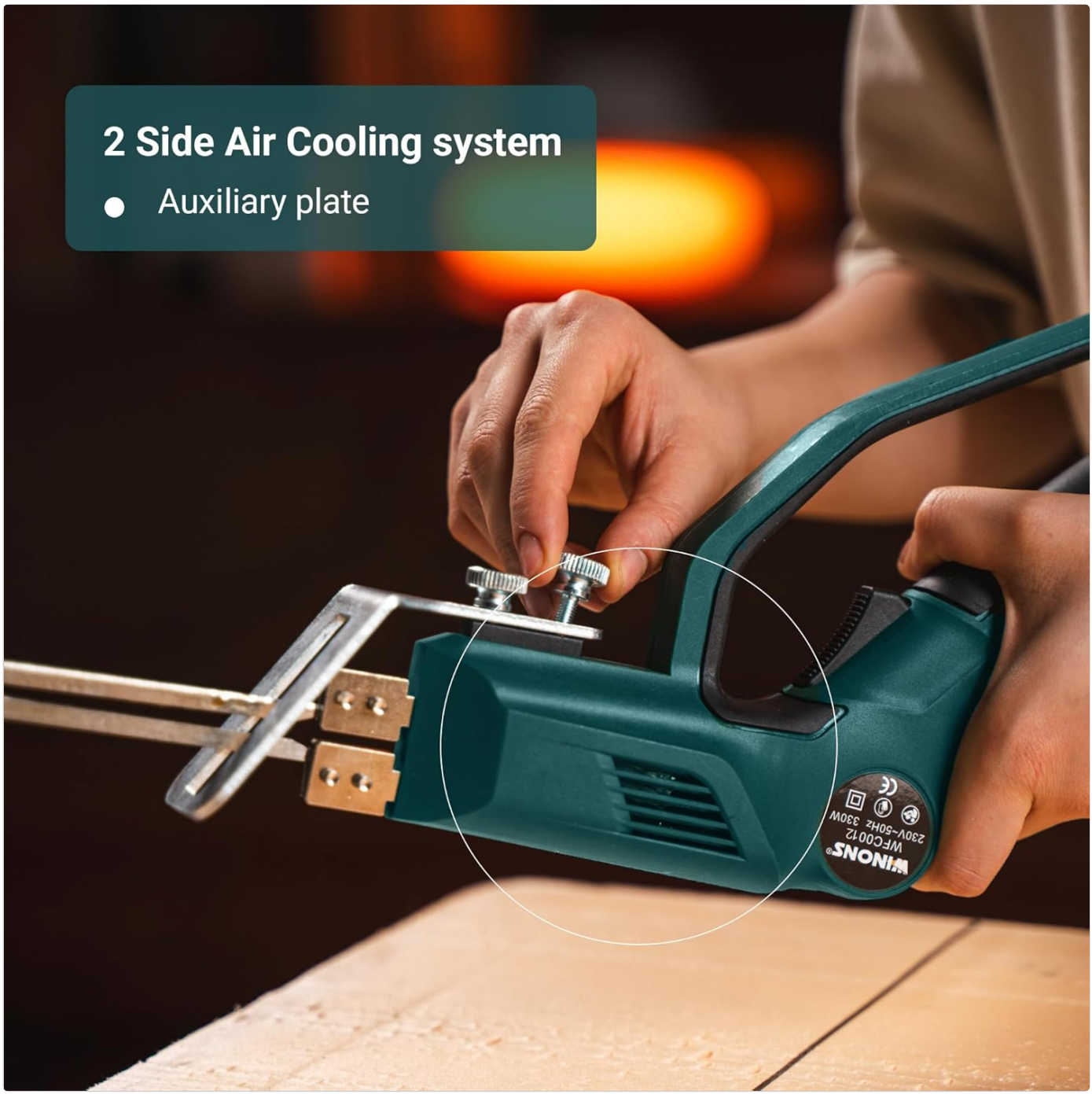

Figure 4.3: The auxiliary plate attached to the tool, demonstrating the 2-side air cooling system.

The WFC0012 incorporates a 2-side air-cooling system to prevent overheating during operation. A safety switch is also integrated for secure use, ensuring the tool only operates when intended.

4.5. Versatile Blades and Groover

The kit includes a variety of high-quality Cr20Ni80 blades, such as straight blades (6-inch, 8-inch, 12-inch folded) and groove blades, along with a dedicated groover and auxiliary plate. This comprehensive selection allows for diverse cutting and shaping tasks on different foam types.

5. Setup

Before operating the tool, ensure it is unplugged and cool.

1. **Blade Selection:** Choose the appropriate blade for your cutting task from the included accessories.
2. **Blade Installation:**

Figure 5.1: Securing a blade using the provided wrench.

- Loosen the screws on the blade attachment terminals at the front of the tool using the provided wrench.
- Insert the ends of the chosen blade into the terminals, ensuring a secure and firm connection.
- Tighten the screws firmly with the wrench to hold the blade in place. Ensure the blade is stable and does not wobble.

3. **Groover/Auxiliary Plate Attachment (Optional):**
   - For grooving tasks, attach the groover accessory to the main terminals. The groove blades are then inserted into the groover.
   - The auxiliary plate can be attached to the bottom of the handle using thumb screws (if applicable) to aid in making straight and level cuts.

6. Operation

Follow these steps for safe and effective operation of your WINONS Hot Knife Foam Cutter.

1. **Power On:** Plug the tool into a suitable power outlet.

2. **Set Temperature:** Rotate the numbered temperature controller dial to your desired setting. Start with a lower setting for thinner or less dense foams and gradually increase as needed. The maximum temperature is 710°C (1310°F).
3. **Pre-heating:** Press the trigger to activate the heating element. The blinking light indicator will confirm heating. The blade will reach operational temperature in approximately 20 seconds.
4. **Cutting:**

Figure 6.1: The hot knife in action, demonstrating its ability to cut various foam materials such as Sponge, EPP, EVA, EPS, EPE, and XPS.

   - Position the heated blade against the foam material.
   - Apply gentle, consistent pressure. Allow the heat to melt through the foam. Do not force the blade.
   - Move the tool smoothly along your desired cutting path.
   - For optimal performance, limit continuous operation to 60 minutes.
5. **Material Compatibility:** This tool is suitable for various foam materials including EPS (Expanded Polystyrene), XPS (Extruded Polystyrene), EPE (Expanded Polyethylene), EVA (Ethylene-vinyl acetate), and other foamed plastics. Refer to the full user manual for a detailed density table for cutting materials.
6. **Power Off:** Release the trigger to stop heating. Unplug the tool from the power outlet when finished or when

changing blades. Allow the tool and blades to cool completely before storage.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your foam cutter.

- **Cleaning Blades:** After each use, ensure the tool is unplugged and the blades are cool. Use the provided cleaner tool to gently scrape off any accumulated foam residue from the blades. Do not use abrasive materials or solvents.
- **Tool Body:** Wipe the tool body with a soft, dry cloth. Do not immerse the tool in water or any other liquid.
- **Storage:** Store the foam cutter and all accessories in the original storage case in a dry, dust-free environment.
- **Inspection:** Periodically inspect the power cord for any signs of damage. If the cord is damaged, discontinue use and contact customer support.

8. Troubleshooting

If you encounter issues with your WINONS Hot Knife Foam Cutter, refer to the following common solutions.

- **Tool Not Heating:**
  - Ensure the tool is securely plugged into a functional power outlet.
  - Check that the blade is correctly installed and the screws are tightened firmly. A loose connection can prevent heating.
  - Verify the temperature dial is set to an active position.
- **Poor Cutting Performance:**
  - Increase the temperature setting gradually.
  - Ensure the blade is clean and free of residue.
  - Avoid applying excessive pressure; let the heat do the cutting.
  - Confirm the blade is appropriate for the density and type of foam being cut.
- **Excessive Smoke/Odor:**
  - Ensure you are working in a well-ventilated area.
  - Reduce the temperature setting if the foam is burning rather than melting cleanly.
  - Move the tool at a consistent, slightly faster pace.

For issues not covered here, please contact WINONS customer support.

9. Specifications

Model Number	WFC0012
Brand	WINONS
Wattage	330 Watts (Max)
Max Temperature	710°C / 1310°F
Temperature Control	Numbered Dial, 15 Levels
Heating Time	Approx. 20 seconds
Blade Material	Cr20Ni80

Power Source	AC/DC
Item Weight	2.2 pounds (1000 Grams)
Product Dimensions	14.09 x 3.86 x 10.63 inches
UPC	860011993759

10. Warranty and Support

Your WINONS Hot Knife Foam Cutter Tool WFC0012 comes with a warranty. Please refer to the included Warranty Card for detailed terms and conditions, including warranty period and coverage.
For technical support, replacement parts, or warranty claims, please contact WINONS customer service through the contact information provided on your Warranty Card or the official WINONS website.

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