Comfort Glow CGTF

Comfort Glow CGTF 5-Blade Thermoelectric Wood Stove Fan Instruction Manual

Model: CGTF

1. Introduction

The Comfort Glow CGTF 5-Blade Thermoelectric Wood Stove Fan is designed to enhance the heat distribution from your wood-burning stove. This fan operates silently and requires no external power source, utilizing the heat generated by the stove to create its own electricity. By circulating warm air, it helps to distribute heat more efficiently throughout your living space.

This manual provides essential information for the safe and effective use of your thermoelectric fan, including setup, operation, maintenance, and troubleshooting.

2. Safety Information

- **Placement:** Always place the fan on a flat, stable surface on top of the wood stove, away from the flue pipe. Ensure it is positioned where the base can absorb sufficient heat.
- **Temperature Range:** The fan is designed to operate within a temperature range of 60°C (140°F) to 340°C (644°F). Operating the fan above 340°C (644°F) can damage the thermoelectric module and motor, voiding the warranty. Use a stove thermometer to monitor stove surface temperature.
- **Handling:** The fan becomes very hot during operation. Always use gloves or a heat-resistant tool to move or handle the fan when it is hot. Never touch the base or blades directly.
- **Children and Pets:** Keep children and pets away from the fan during operation to prevent burns or injuries from moving blades.
- **Ventilation:** Ensure adequate ventilation in the room when operating a wood stove.
- **Modifications:** Do not attempt to modify or disassemble the fan. This can lead to malfunction, damage, and void the warranty.

3. Product Features

- **Silent Operation:** Designed to circulate air quietly without disruptive noise.
- **No External Power Needed:** Operates solely on the heat generated by your wood stove, eliminating the need for cords, plugs, or batteries.
- **Durable Construction:** Manufactured from anodized extruded aluminum for long-lasting performance and resistance to high temperatures.
- **Efficient Air Circulation:** Features 5 blades for optimal air movement, improving heat distribution.
- **Wide Operating Temperature:** Functions effectively within 60°C (140°F) to 340°C (644°F).
- **Energy-Efficient:** Reduces energy consumption by utilizing stove heat for power.
- **Versatile Use:** Suitable for various wood-burning stoves.

4. Setup

1. **Unpack:** Carefully remove the fan from its packaging. Inspect for any signs of damage.
2. **Placement:** Place the Comfort Glow CGTF fan on a smooth, flat, and stable surface on the top plate of your wood stove. Ensure the fan is positioned towards the back or side of the stove, away from the flue pipe, where the temperature is highest but within the recommended operating range.
3. **Clearance:** Ensure there is adequate clearance around the fan for the blades to rotate freely and for air to circulate.

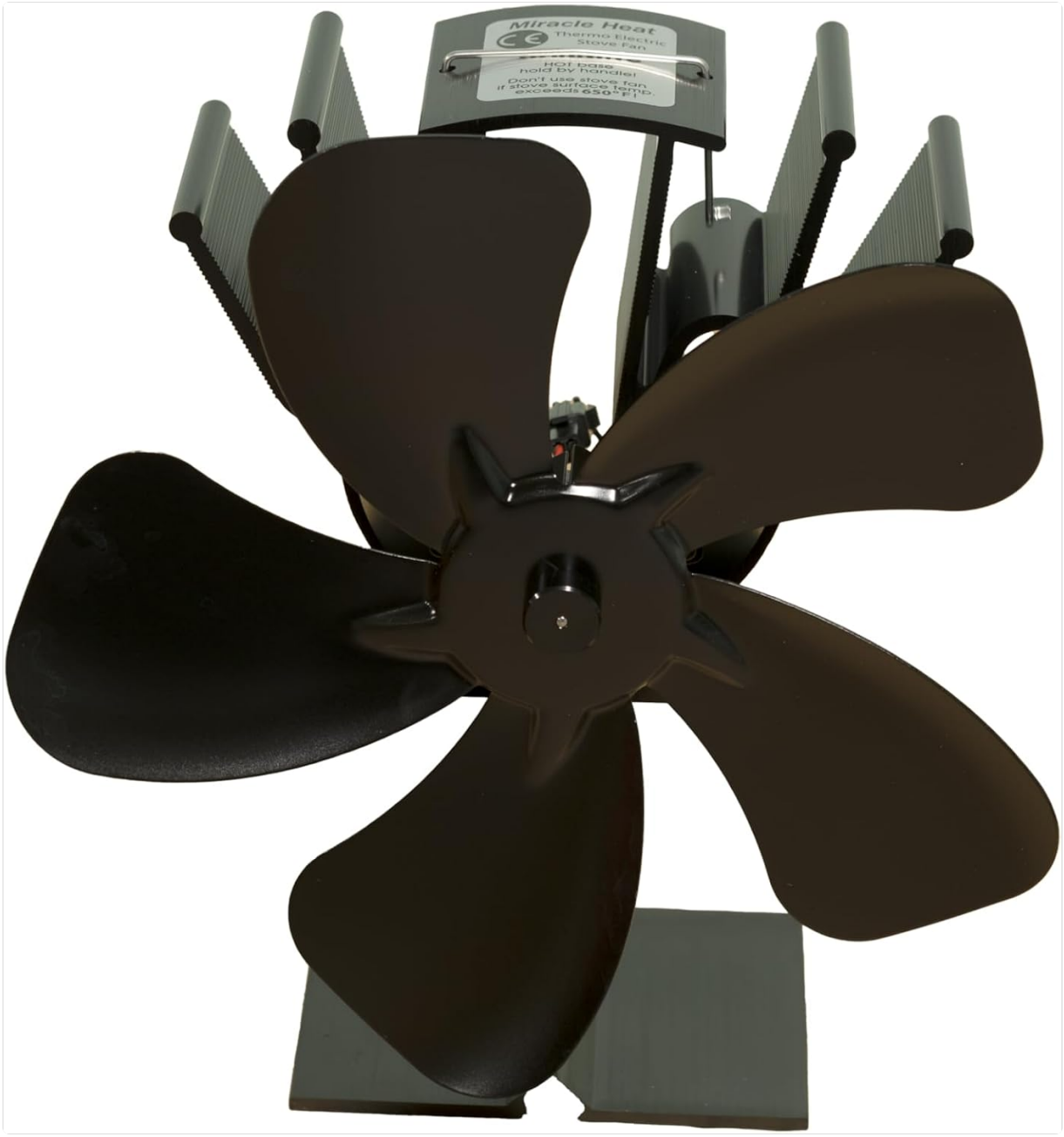


Figure 1: Front angled view of the Comfort Glow CGTF fan, illustrating its five black blades and stable base. This image shows the fan's overall design and how the blades are positioned for air circulation.

5. Operating Instructions

The Comfort Glow CGTF fan operates automatically based on the heat from your wood stove.

1. **Automatic Start:** As the surface temperature of your wood stove increases and reaches approximately 60°C (140°F), the fan will begin to rotate. The speed of the blades will increase as the stove's temperature rises.
2. **Heat Distribution:** The rotating blades will push warm air horizontally across the room, helping to distribute the heat more evenly and efficiently than the stove alone.
3. **Automatic Stop:** When the stove's surface temperature drops below the operating threshold, the fan will slow down and eventually stop.

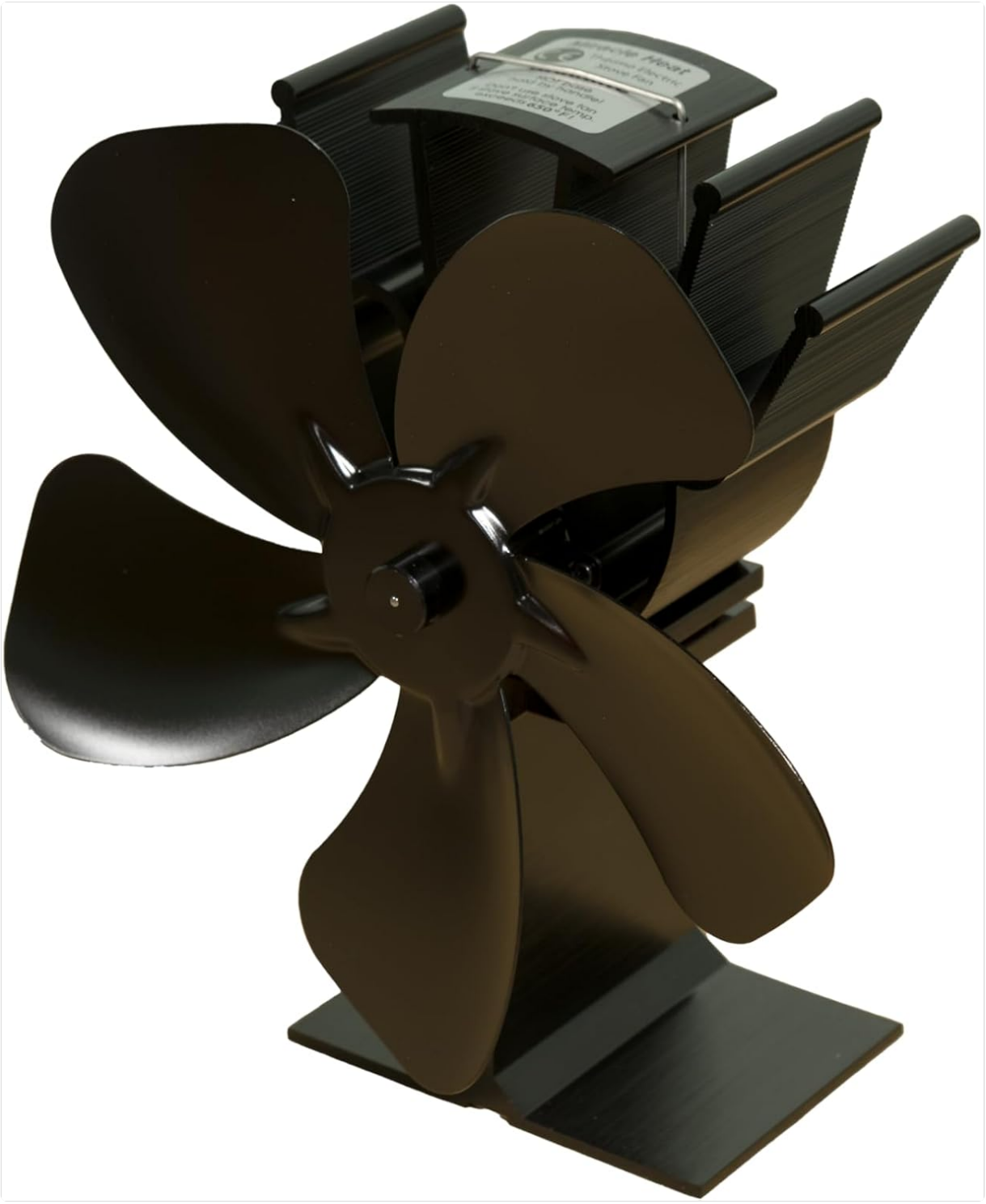


Figure 2: Side view of the Comfort Glow CGTF fan, highlighting the heat sink fins at the top which are crucial for the thermoelectric generator's operation. This perspective also shows the fan's profile and base.

6. Maintenance

- **Cleaning:** Periodically clean the fan blades and base with a soft, damp cloth to remove dust and debris. Ensure the fan is completely cool before cleaning.
- **Storage:** When not in use for extended periods, store the fan in a cool, dry place, protected from dust.
- **Inspection:** Regularly inspect the fan for any signs of damage, such as bent blades or loose components. Do not operate a damaged fan.
- **Lubrication:** The fan motor is sealed and does not require lubrication.



Figure 3: Back view of the Comfort Glow CGTF fan, revealing the motor and internal wiring that connect to the thermoelectric module. This view provides insight into the fan's power generation mechanism.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Fan does not spin.	Stove surface temperature is too low.	Ensure the stove surface has reached at least 60°C (140°F). Place the fan on a hotter part of the stove.
Fan spins slowly.	Stove surface temperature is not optimal.	Increase stove temperature or reposition the fan to a hotter area. Ensure no obstructions are blocking airflow.
Fan is noisy or wobbles.	Fan is not on a flat surface or blades are bent.	Ensure the fan is on a perfectly flat surface. Inspect blades for damage; if bent, contact support.
Fan stops spinning prematurely.	Stove temperature dropped or fan overheated.	Check stove temperature. If the fan was exposed to temperatures above 340°C (644°F), it might be damaged. Allow to cool and re-evaluate.

8. Specifications

Brand	Comfort Glow
Model Name	Comfort Glow 5 Blade Thermoelectric Fan for Wood Stoves, Silent - CGTF
Model Number	CGTF
Color	Black
Electric Fan Design	Table Fan
Power Source	Heat Powered
Product Dimensions	4.5"D x 7.5"W x 8.38"H
Item Weight	2.1 pounds
Operating Temperature Range	60°C (140°F) to 340°C (644°F)
Material	Anodized Extruded Aluminum
Assembly Required	No
Batteries Required	No
UPC	013204000455

9. Warranty and Support

The Comfort Glow CGTF 5-Blade Thermoelectric Wood Stove Fan is backed by a **2-year warranty** from

the date of purchase. This warranty covers defects in materials and workmanship under normal use.

The warranty does not cover damage resulting from:

- Operating the fan above the maximum recommended temperature of 340°C (644°F).
- Improper use, installation, or maintenance.
- Accidental damage, abuse, or neglect.
- Unauthorized modifications or repairs.

For warranty claims or technical support, please contact Comfort Glow customer service. Please have your purchase receipt and product model number (CGTF) available.

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