iPower HIFANXEXHAUST14THEMOT

iPower 14 Inch Wall Mounted Shutter Exhaust Fan with Temperature Controller and Power Cord Kit User Manual

Model: HIFANXEXHAUST14THEMOT

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your iPower 14 Inch Wall Mounted Shutter Exhaust Fan with Temperature Controller. Please read all instructions carefully before installation and use. Retain this manual for future reference.

2. SAFETY INFORMATION

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

- Ensure the power supply matches the fan's specifications (120V, 60Hz).

- Disconnect power before servicing or cleaning the fan.

- Do not operate the fan with a damaged cord or plug.

- Keep fingers and foreign objects away from moving blades.

- Install the fan securely to prevent accidental dislodgement.

- This fan is designed for indoor use in environments such as attics, barns, garages, greenhouses, and plant rooms.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- 14 Inch Wall Mounted Shutter Exhaust Fan

- Temperature Controller with Power Cord

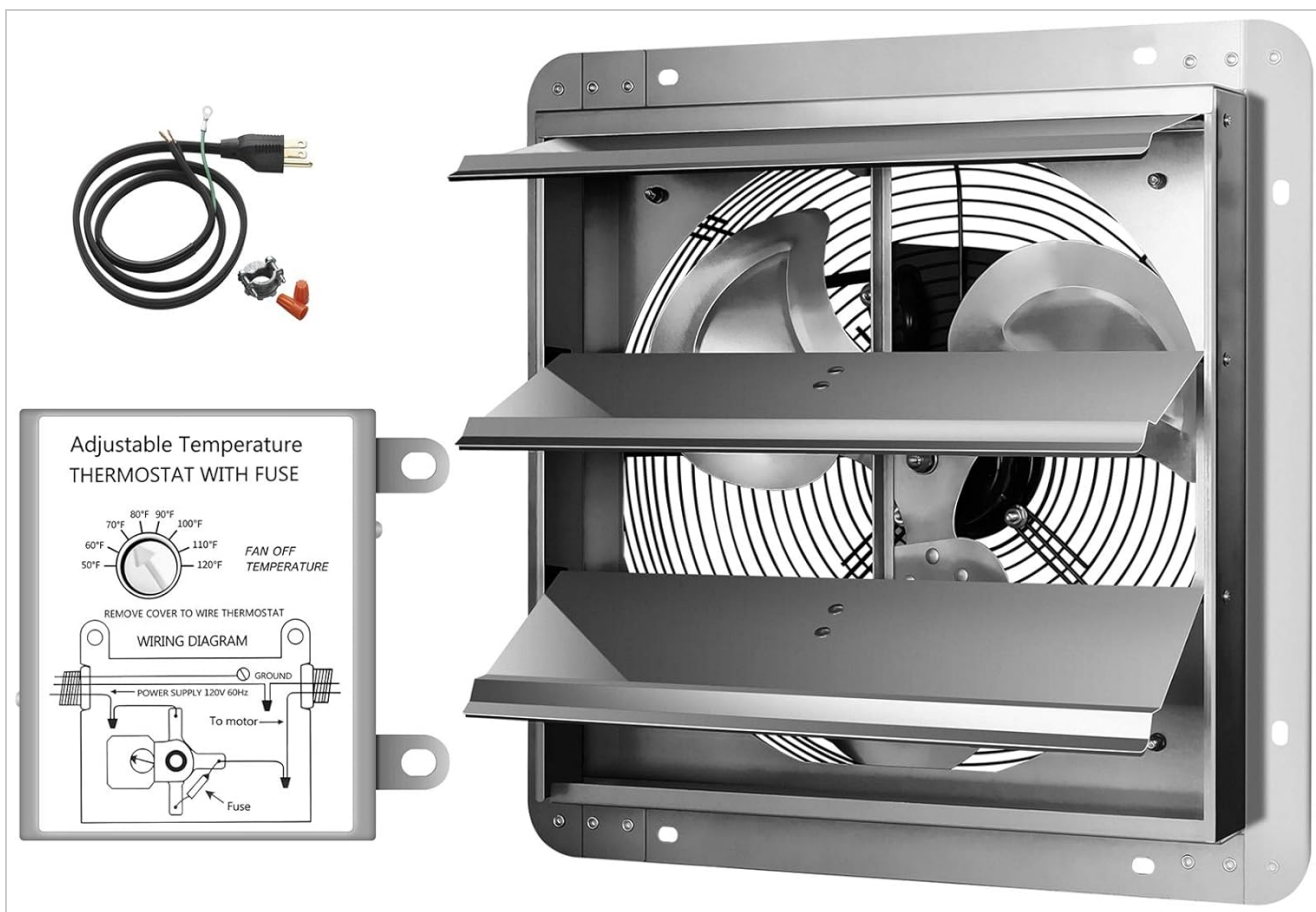- Mounting Hardware (screws, wire nuts)

- Instruction Manual

Figure 1: Main components of the iPower 14 Inch Exhaust Fan kit.

4. SETUP AND INSTALLATION

The fan is mostly pre-assembled. Follow these steps for proper installation:

4.1 Mounting the Fan

1. Choose a suitable location on a wall that can support the fan's weight and allows for proper airflow.

2. Ensure the mounting surface is flat and stable.

3. Position the fan frame against the wall and mark the drilling points for the mounting screws.

4. Drill pilot holes at the marked locations.

5. Secure the fan frame to the wall using the provided mounting screws. Ensure it is level and firmly attached.

Figure 2: Example of fan installation and airflow in a greenhouse setting.

4.2 Connecting the Temperature Controller

The temperature controller manages the fan's operation based on ambient temperature. It comes with a pre-attached power cord.

1. Mount the temperature controller in an accessible location, ensuring its sensor is exposed to the air you wish to regulate.
2. Connect the fan's power cord to the temperature controller's output.
3. Plug the temperature controller's power cord into a standard 120V electrical outlet.
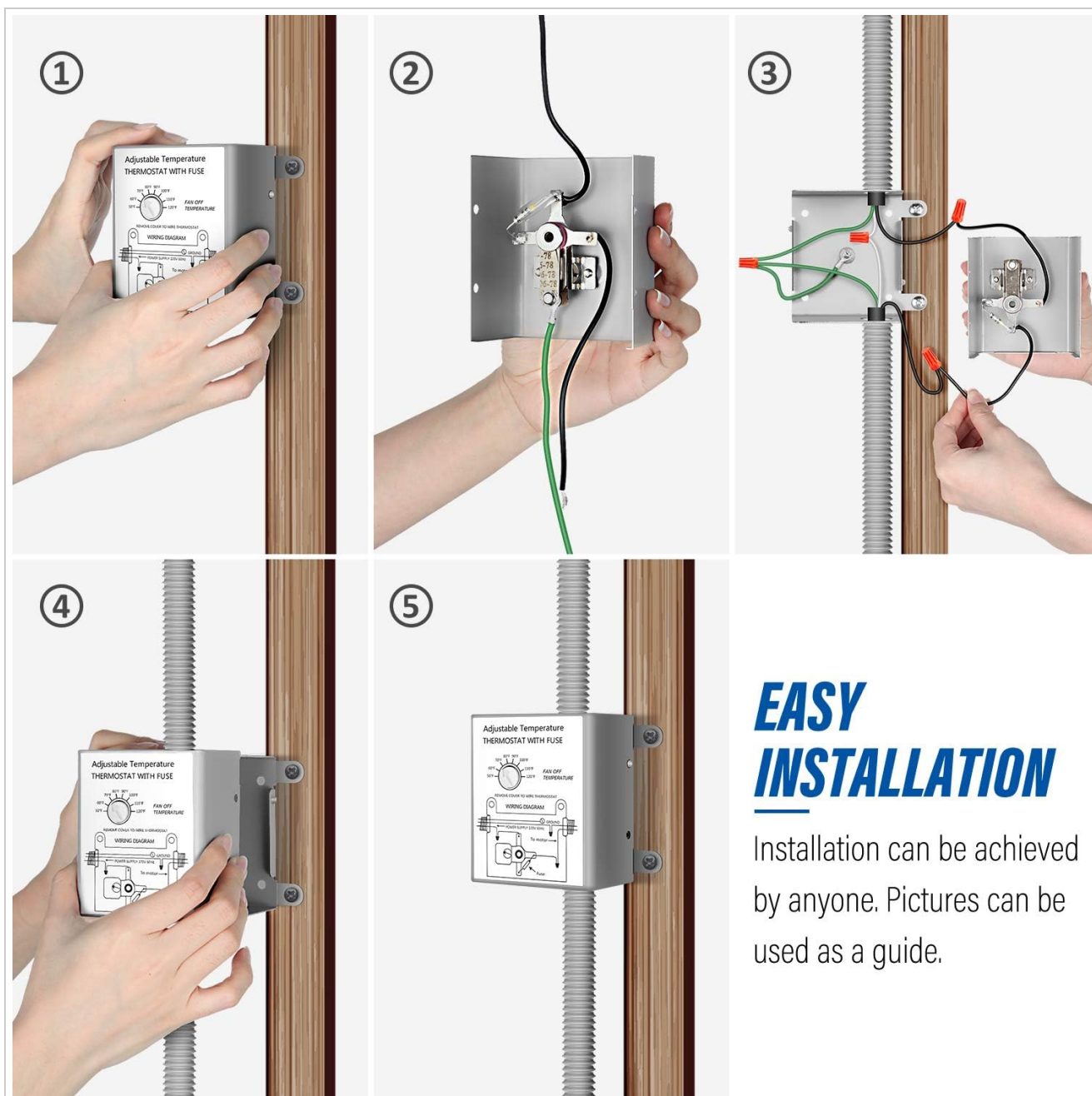
EASY INSTALLATION

Installation can be achieved by anyone. Pictures can be used as a guide.

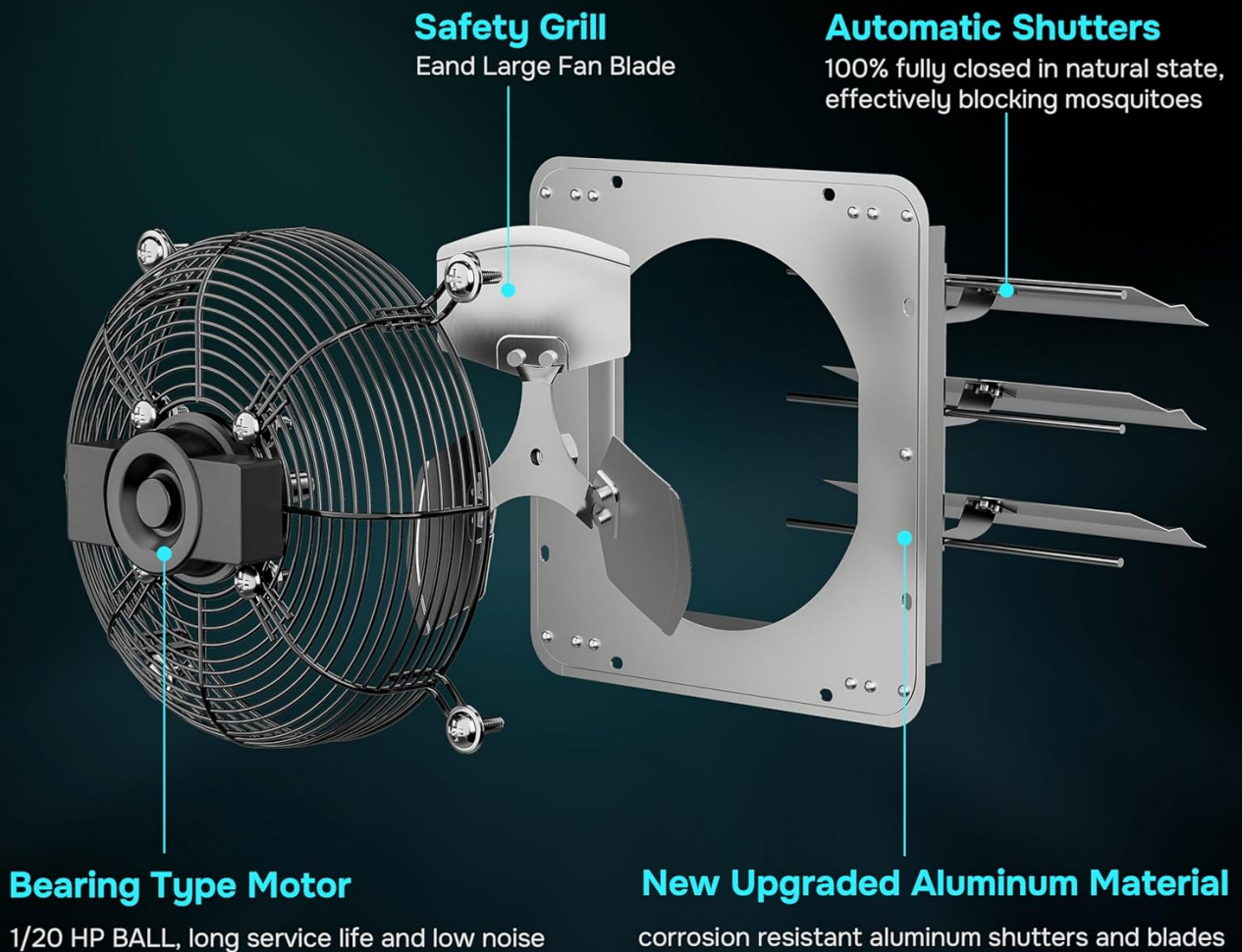Figure 3: Wiring diagram for the adjustable temperature thermostat.

Figure 4: Visual guide for connecting the temperature controller.

4.3 Video Tutorial: Controller Assembly and Operation

Video 1: This video demonstrates the assembly and basic operation of a similar temperature and humidity controller for exhaust fans. While the fan model may vary, the controller's functionality is comparable.

5. OPERATING INSTRUCTIONS

The temperature controller allows for automatic fan operation based on your desired temperature settings.

5.1 Setting the Temperature

1. Locate the temperature dial on the controller.

2. Rotate the dial to set your desired temperature between 50°F and 120°F. The fan will automatically turn on when the ambient temperature rises above this set point and turn off when it falls below.
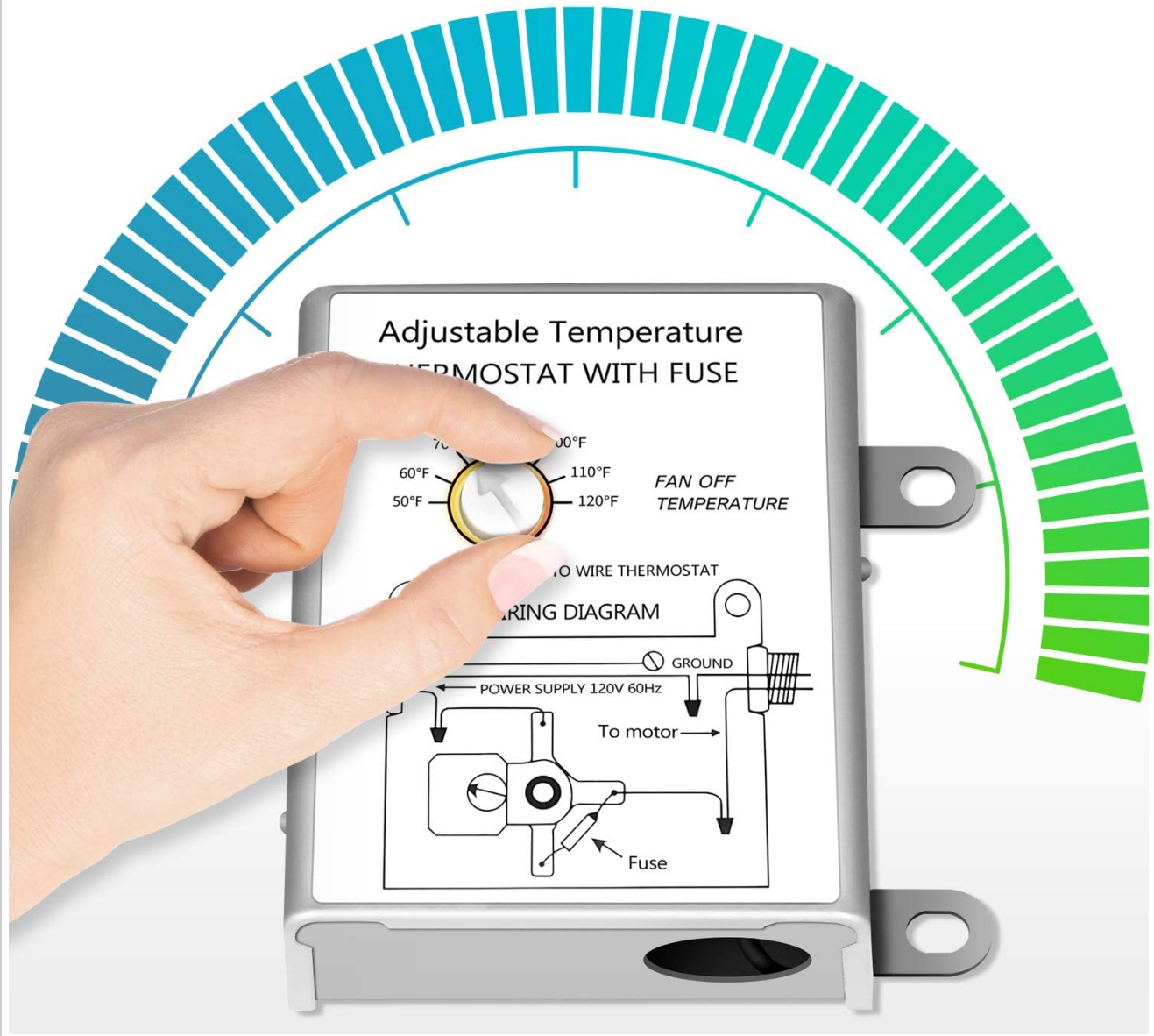
Figure 5: Adjusting the temperature setting on the controller.

5.2 Automatic Shutters

The fan features automatic shutters that open when the fan is running and close due to gravity when the fan stops. This mechanism helps prevent insects and dust from entering the room when the fan is inactive.
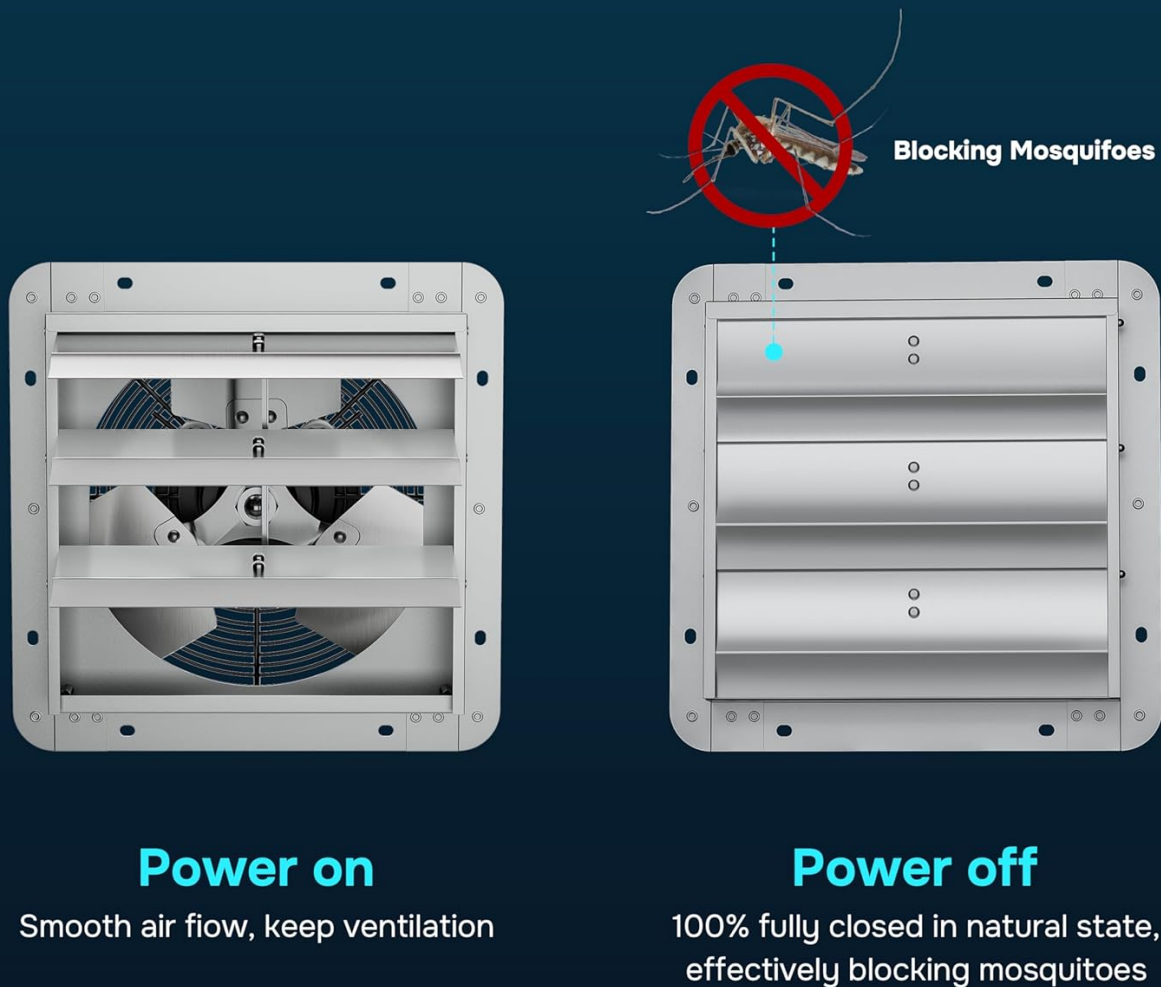
Figure 6: Automatic gravity shutters in open (power on) and closed (power off) positions.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your exhaust fan.

- **Cleaning Blades and Louvers:** Periodically disconnect power and gently wipe fan blades and aluminum louvers with a soft, damp cloth. Avoid abrasive cleaners.
- **Motor Inspection:** Check the motor for any unusual noises or vibrations. The motor is designed for long service life and low noise.
- **Shutter Functionality:** Ensure the automatic shutters open and close smoothly. Clean any debris that might obstruct their movement.

7. TROUBLESHOOTING

If you encounter issues with your fan, refer to the following common problems and solutions:
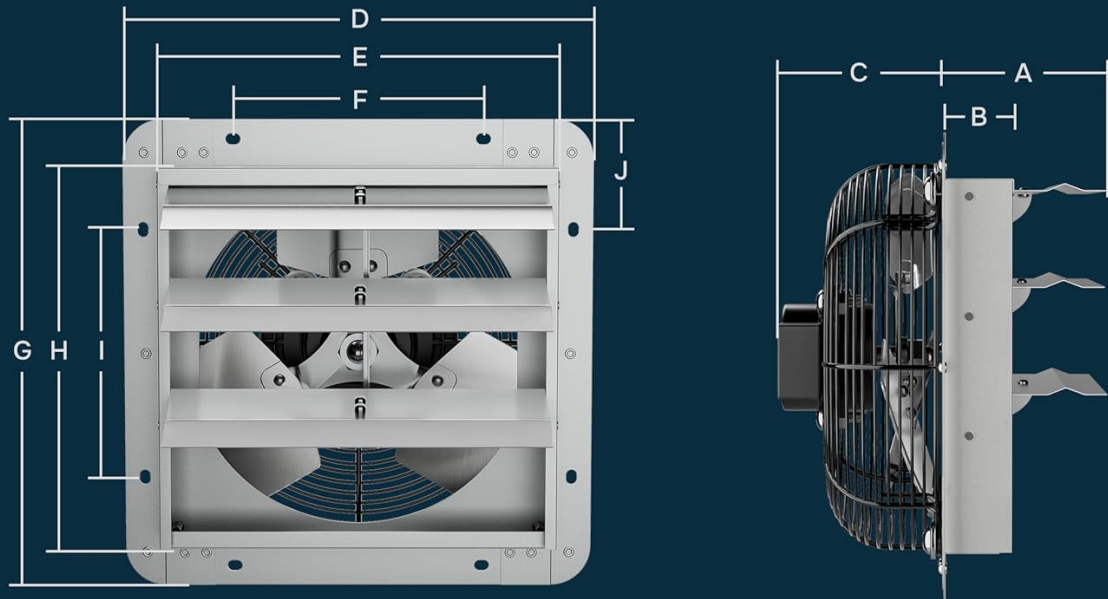
Problem	Possible Cause	Solution
Fan does not turn on.	No power, incorrect temperature setting, faulty controller.	Check power connection and outlet. Adjust temperature setting. Inspect controller for damage.
Fan runs continuously.	Temperature setting too low, controller malfunction.	Increase the temperature set point. If issue persists, contact support.
Shutters do not open/close.	Obstruction, mechanical issue.	Check for debris blocking shutters. Ensure fan is running for shutters to open.
Excessive noise or vibration.	Loose mounting, damaged blades, motor issue.	Ensure fan is securely mounted. Inspect blades for damage. Contact support if motor noise persists.

8. SPECIFICATIONS

Feature	Detail
Fan Size	14 Inch
RPM	1600
CFM (Air Flow Capacity)	1000
Voltage	120V
Frequency	60HZ
Wattage	70W
Blade Material	Aluminum
Frame Material	Steel
Temperature Controller Range	50°F - 120°F
Controller Voltage/Amperage	115V-120V, 13A
Controller Wattage	1200W
Certifications	ETL
Product Dimensions	11.4"D x 17"W x 17"H
Item Weight	10.73 pounds
Model Name	HIFANXEXHAUST14THEMOT
UPC	840166230886

SPECIFICATIONS

- IMPELLER DIA: 14 INCH
- POWER: 70W
- FREQUENCY: 60HZ
- VOLTAGE: 120 V

- NOISE: dB(A)<68
- ROTATING SPEED: 1600 RPM
- WIND SPEED: 10.5M/S
- AIR FLOW: 1000CFM

Model	A	B	C	D	E	F	G	H	I	J
HIFANXEXHAUST14	5.3"	2"	6.1"	17"	14"	7.9"	17"	14"	7.9"	3.6"

Figure 7: Technical specifications and dimensions of the exhaust fan.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official iPower website. Keep your purchase receipt as proof of purchase.