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KingMiKi KingMiKi Solar Fan 01

KingMiKi Solar Exhaust Fan User Manual

Model: KingMiKi Solar Fan 01

Brand: KingMiKi

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your KingMiKi Solar Exhaust Fan. This 25W solar-powered fan is designed to provide efficient ventilation for various outdoor structures such as chicken coops, greenhouses, sheds, and attics. It features an 8-inch fan with a powerful 2600 RPM motor and includes an AC to DC power adapter for continuous operation during periods of low sunlight or at night.



Figure 1.1: KingMiKi Solar Exhaust Fan with included 25W solar panel and power adapter.

2. SAFETY INSTRUCTIONS

Please read all safety instructions carefully before installing and operating the fan. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure all electrical connections are secure and comply with local electrical codes.
- Do not attempt to modify the fan or solar panel in any way.
- Keep hands and foreign objects away from the fan blades during operation.
- Install the solar panel in a location with adequate sunlight exposure, away from flammable materials.
- Disconnect power before performing any maintenance or cleaning.
- This product is designed for outdoor use and is IP67-rated for dust and water resistance. However, avoid submerging the unit.

3. INCLUDED COMPONENTS

The KingMiKi Solar Exhaust Fan package includes the following items:

- Solar Fan Unit (8-inch)
- 25W Solar Panel with adjustable bracket
- AC to DC Power Adapter
- Fixed Ring for screw-free hole installation
- Installation Components (screws, washers, wall anchors)
- Power Cable with ON/OFF Switch (180 inches total length)
- Power Adapter Wire (36 inches length)



Figure 3.1: Overview of all accessories and components included in the package.

4. PRODUCT SPECIFICATIONS

Feature	Specification
Brand	KingMiKi
Model Name	KingMiKi Solar Fan 01
Color	Black
Electric Fan Design	Exhaust Fan
Power Source	Solar or AC/DC Adapter
Product Dimensions (Fan)	9.8"W x 9.8"H x 4"D
Solar Panel Wattage	25 Watts
Solar Panel Efficiency	Up to 22%
Fan RPM	2600 RPM
Noise Level	36 dB
Voltage	12 Volts (DC)
Number of Blades	3
Indoor/Outdoor Usage	Outdoor
Material	ABS (Fan), Monocrystalline Silicon with Toughened Glass & Aluminum Frame (Solar Panel)
Wire Length (Total)	180 inches
IP Rating	IP67 (Solar Panel)



Figure 4.1: Detailed dimensions of the solar panel and fan unit.

5. INSTALLATION (SETUP)

The KingMiKi Solar Exhaust Fan is designed for easy installation. Follow these steps for optimal performance:

- 1. Choose Location:** Select a suitable location for the fan and solar panel. The fan is ideal for greenhouses, chicken coops, sheds, and attics. Ensure the solar panel location receives maximum direct sunlight throughout the day. Avoid areas with trees or other obstructions that may cast shadows on the panel.
- 2. Prepare Opening:** Create a circular opening in the wall or structure where the fan will be installed. The fan's exhaust tube has a 7-inch diameter. Ensure the opening is slightly larger to accommodate the fan unit.
- 3. Install Fan Unit:**
 - Insert the fan unit into the prepared opening.
 - Secure the fan using the provided screws and wall anchors. Alternatively, use the fixed ring for screw-free hole installation by placing it around the fan's exhaust tube from the opposite side of the wall and securing it.
- 4. Mount Solar Panel:**
 - Mount the 25W solar panel in a location with direct sunlight using its adjustable bracket and the provided

installation components.

- Adjust the angle of the solar panel to maximize sun exposure.

5. **Connect Wiring:** Connect the fan's power cable to the solar panel's output. The total wire length is 180 inches, providing flexibility for placement. Ensure connections are secure.
6. **Test Operation:** Once installed, the fan will begin operating when the solar panel receives sufficient sunlight.

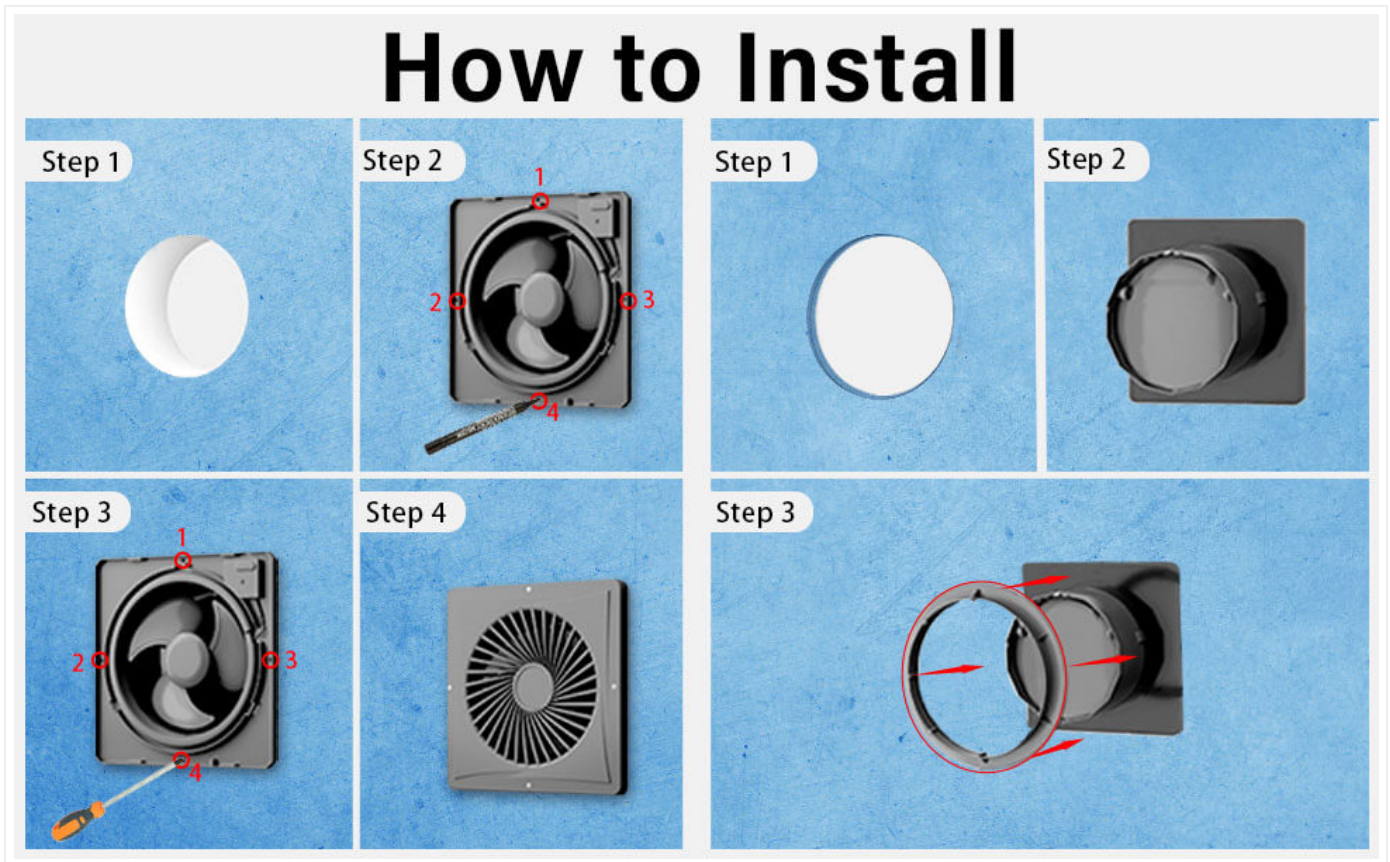


Figure 5.1: Visual guide for fan installation steps.



Figure 5.2: Important considerations for solar panel placement to avoid obstructions.

6. OPERATION

The KingMiKi Solar Exhaust Fan offers flexible operation modes:

6.1 Solar Powered Operation

During the day, when the solar panel receives direct sunlight, the fan will operate at full speed (2600 RPM). On cloudy days with weaker sunlight, the fan may operate at a lower speed, still promoting air circulation. The fan does not have a built-in battery, so it relies directly on solar power for operation.

6.2 AC to DC Adapter Operation

For continuous operation during the night or when sunlight is insufficient, connect the fan to the provided AC to DC power adapter. Plug the adapter into a standard household power outlet. This allows the fan to run independently of solar conditions.



Figure 6.1: Fan operation modes: solar power during the day, AC adapter for evening/insufficient sunlight.

Without an internal battery but with a power adapter

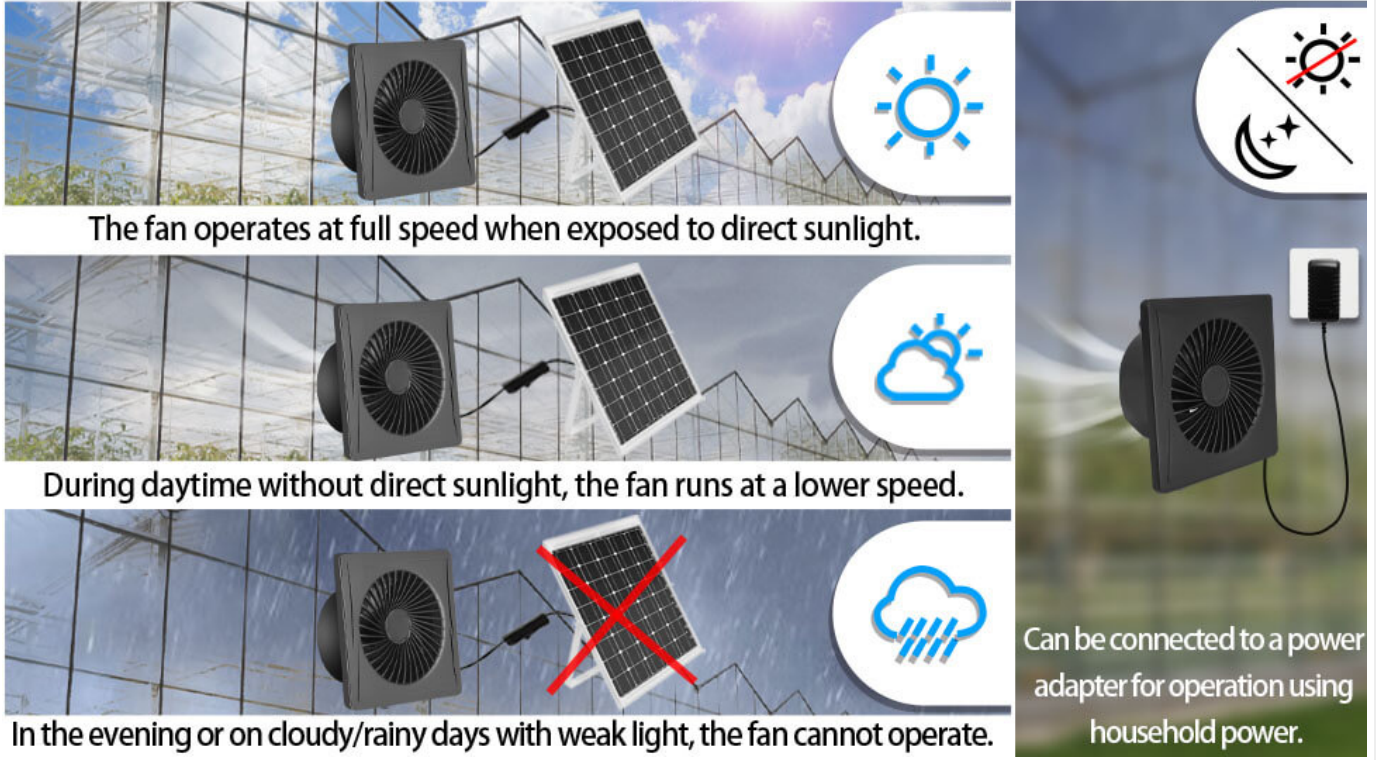


Figure 6.2: Fan performance based on sunlight availability and the option to use the power adapter.

By Maintaining Ventilation and Improving Air Circulation, You Create a More Pleasant and Healthful Indoor Environment.

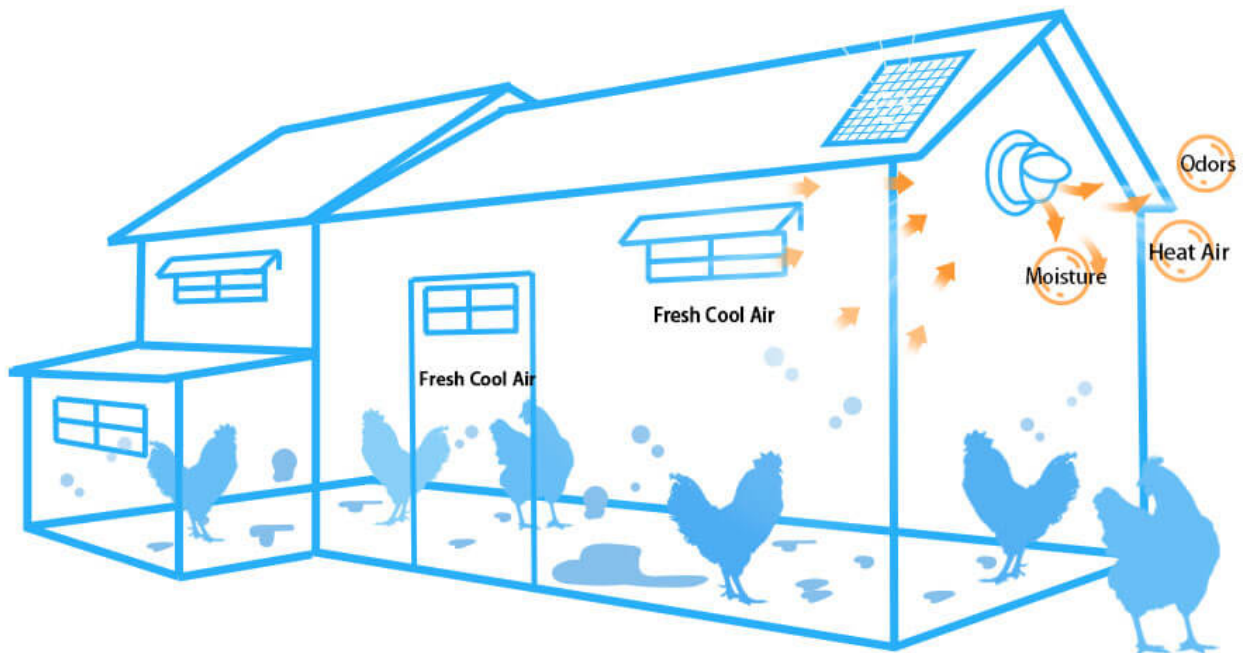


Figure 6.3: Benefits of proper ventilation using the exhaust fan in a chicken coop environment.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your solar exhaust fan:

- **Solar Panel Cleaning:** Periodically clean the surface of the solar panel with a soft, damp cloth to remove dust, dirt, and debris. A clean panel ensures maximum sunlight absorption and efficiency. Avoid abrasive cleaners.
- **Fan Cleaning:** Inspect the fan blades and housing for any accumulation of dust or debris. Gently wipe clean with a dry or slightly damp cloth. Ensure the fan is disconnected from all power sources before cleaning.
- **Check Connections:** Periodically check all electrical connections between the fan, solar panel, and adapter (if used) to ensure they are secure and free from corrosion.
- **Inspect for Damage:** Regularly inspect the fan unit, solar panel, and wiring for any signs of physical damage. Address any issues promptly to prevent further damage or malfunction.

8. TROUBLESHOOTING

If you encounter issues with your KingMiKi Solar Exhaust Fan, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan not operating (solar mode)	Insufficient sunlight; dirty solar panel; loose connection.	Ensure solar panel is in direct sunlight. Clean solar panel surface. Check all wiring connections.
Fan operating at low speed (solar mode)	Partial sunlight; cloudy weather.	This is normal behavior in low light. For full speed, ensure direct sunlight or use AC adapter.
Fan not operating (AC adapter mode)	Power adapter not plugged in; power outlet issue; faulty adapter.	Ensure adapter is securely plugged into a working outlet. Test outlet with another device. Contact support if adapter is suspected faulty.
Fan making rattling noise	Loose components; debris in fan blades; flap vibration.	Inspect fan for loose parts or debris. Ensure the fan is securely mounted. Check the vent flap for vibration and secure if necessary.
Reduced airflow	Dirty fan blades; obstructed exhaust path.	Clean fan blades. Ensure the exhaust path is clear of obstructions.

9. WARRANTY INFORMATION

Specific warranty details for the KingMiKi Solar Exhaust Fan are not provided in this manual. Please refer to the product packaging or the seller's website for the most current warranty policy and registration information. Keep your purchase receipt as proof of purchase for any warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this guide, or inquiries regarding your KingMiKi Solar Exhaust Fan, please contact KingMiKi customer support through the retailer where the product was purchased or visit the official KingMiKi website for contact information.

Thank you for choosing KingMiKi.

