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› **voominhtec 35W Solar Attic Fan with 110V Smart Power Adapter & 65ft Remote Instruction Manual**

voominhtec SLF-12-1

voominhtec 35W Solar Attic Fan Instruction Manual

Model: SLF-12-1

Introduction	**Safety Information**	**Package Contents**	**Product Features**	**Setup & Installation**
Operation	**Maintenance**	**Troubleshooting**	**Specifications**	**Warranty & Support**

1. INTRODUCTION

Thank you for choosing the voominhtec 35W Solar Attic Fan. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new attic fan. Please read this manual thoroughly before use and retain it for future reference.

This solar attic fan is designed to improve ventilation in attics, garages, barns, and greenhouses, helping to regulate temperature and reduce moisture buildup. It features a high-efficiency solar panel, a quiet DC motor, smart thermostat technology, and remote control capabilities for convenient operation.

2. SAFETY INFORMATION

WARNING: Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Read all instructions before installing or operating the fan.
- Installation should be performed by a qualified professional or experienced individual familiar with roof work and electrical connections.
- Always disconnect power before servicing or cleaning the unit.
- Ensure all electrical connections comply with local codes and regulations.
- Do not insert fingers or foreign objects into the fan blades.
- Wear appropriate personal protective equipment (PPE) during installation, including gloves, safety glasses, and fall protection if working on a roof.
- Keep children and pets away from the installation area.
- The fan is designed for outdoor use and is IPX5 weatherproof. However, avoid direct high-pressure water jets.
- Ensure the mounting surface is structurally sound to support the fan's weight and withstand wind

loads.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package. If any items are missing or damaged, contact customer support.

- Solar Attic Fan Unit (with integrated solar panel)
- 110V Smart Power Adapter
- 65ft Remote Control
- Installation Accessories (screws, mounting hardware)
- Instruction Manual (this document)

Figure 3.1: Main components of the voominhtec 35W Solar Attic Fan package.

4. PRODUCT FEATURES

- **High-Efficiency Solar Panel:** Monocrystalline solar panel with 360° horizontal and 30° vertical adjustability for optimal sunlight exposure. Features a 10+ year lifespan and automatic AC power backup during low sunlight.
- **Premium DC Motor System:** Brushless DC motor operates at ultra-quiet <1.7 sones with 1,500

RPM. IPX5 waterproof-rated and designed for 80,000+ hours of maintenance-free operation.

- **Smart Thermostat Technology:** Auto-sensing thermostat activates ventilation when attic temperatures exceed 77°F (25°C). Adaptive speed control increases airflow as heat rises.
- **Extended-Range Remote Control:** 65ft (20m) remote for adjusting speeds and toggling between 3 operational modes (Auto/Manual).
- **Professional-Grade Durability:** Wind-tunnel tested to withstand 130mph winds and temperatures from -22°F to 158°F (-30°C to 70°C). UL-listed components ensure safety compliance.
- **Dual Power Supply:** Operates on solar power during the day and automatically switches to 110V AC power when solar energy is insufficient or at night.
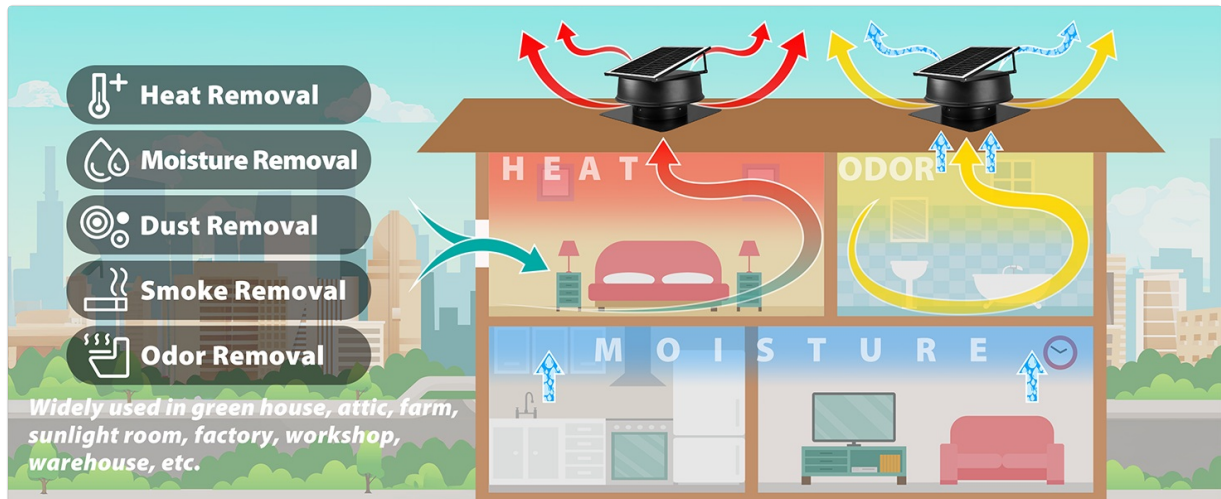

Figure 4.1: The solar attic fan effectively removes heat, moisture, dust, smoke, and odors from various spaces.
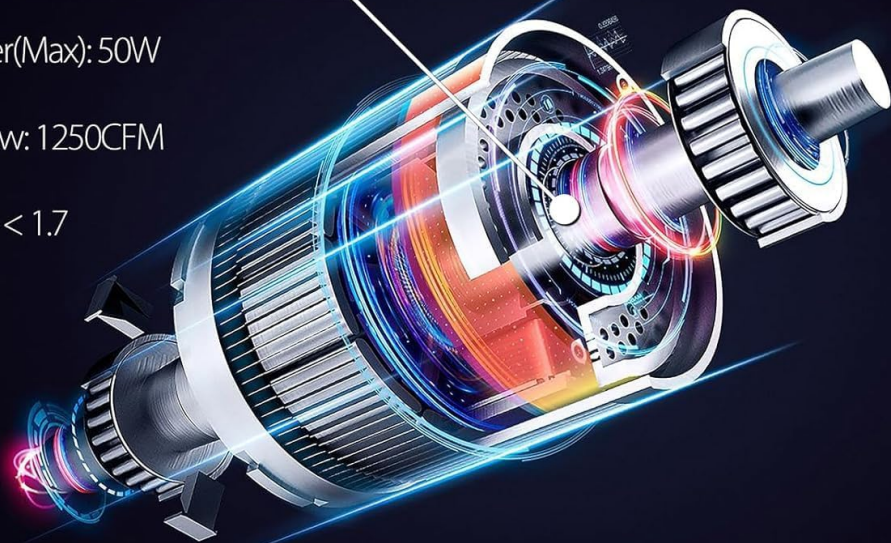
Figure 4.2: The fan features a high-efficient brushless DC motor for quiet and powerful operation.

5. SETUP & INSTALLATION

Proper installation is crucial for the fan's performance and longevity. It is recommended to have this unit installed by a professional.

5.1 Site Selection

- Choose a location on the roof that receives maximum direct sunlight throughout the day.
- Ensure the area is clear of obstructions like trees or chimneys that could shade the solar panel.
- Verify that the roof structure can safely support the fan unit.

5.2 Installation Steps

1. **Measure and Mark:** Measure the size of the inner circle of the fan base. Mark this diameter on your roof at the chosen installation site.
2. **Cut Opening:** Carefully cut a circular opening on your roof according to the marked inner circle.
3. **Install Fan Unit:** Place the fan unit over the opening. Secure the roof flange to the roof using appropriate screws and seal all joints with a waterproof sealant to prevent leaks.
4. **Adjust Solar Panel:** Adjust the angle of the solar panel (0°-30° vertical) and rotate the base (360°

horizontal) to face the sun for optimal energy capture. Tighten the adjustment rod to secure the panel's position.

5. **Connect AC Adapter (Optional):** If using the 110V AC power backup, connect the smart power adapter to the fan and plug it into a suitable outdoor-rated electrical outlet.

Figure 5.1: Visual guide for the 4-step installation process.

Figure 5.2: The solar panel can be adjusted 360 degrees horizontally and 0-30 degrees vertically to maximize sun exposure.

High-efficient DC Motor
1250 CFM Airflow

12in

10in

22in 22in

Solar Panel Power: 35W
Motor Power(Max): 50W

Figure 5.3: Product dimensions and fan blade size for installation planning.

5.3 Installation Video

Your browser does not support the video tag.

Video 5.1: This video demonstrates the assembly and operational features of the voominhtec Solar Attic Fan, including solar panel adjustment and remote control functions.

6. OPERATION

The voominhtec Solar Attic Fan offers both automatic and manual operation modes via the included remote control.

6.1 Remote Control Functions

Remote Control Introduction

Gear Display

ON — OFF
Increase Speed — Reduce Speed
Timing Plus — Timing Minus
Pair Code — Auto Mode

80 ft

RF433 Ultra-long Remote Control Tec.

Figure 6.1: Layout and functions of the remote control buttons.

- **ON/OFF:** Powers the fan on or off.
- **Increase Speed (+):** Increases the fan speed.
- **Reduce Speed (-):** Decreases the fan speed.
- **Timing Plus/Minus:** Adjusts the timer settings (if applicable).
- **Pair Code:** Used for pairing the remote with the fan unit.
- **Auto Mode:** Activates the smart thermostat function.

6.2 Operating Modes

- **Automatic Mode:** When selected, the fan's speed automatically adjusts based on the attic temperature. It activates when the temperature exceeds 77°F (25°C) and increases speed as the temperature rises.
- **Manual Mode:** Allows you to manually set the fan speed using the remote control.

6.3 Power Source Management

The fan intelligently switches between solar and AC power:

- During sufficient sunlight, the fan operates solely on solar power. The fan speed is determined by the intensity of sunlight in automatic mode.

- When sunlight is insufficient (e.g., cloudy days, night), the system automatically switches to the 110V AC power adapter (if connected). In AC mode, fan speed can be adjusted via the remote control.

Figure 6.2: The fan seamlessly transitions between solar and AC power for continuous ventilation.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your solar attic fan.

- **Solar Panel Cleaning:** Periodically clean the solar panel surface with a soft, damp cloth to remove dust, dirt, or debris that may reduce efficiency. Do not use abrasive cleaners.
- **Fan Blade Inspection:** Annually inspect the fan blades for any buildup of dust or debris. If necessary, carefully clean the blades after ensuring the power is completely disconnected.
- **Ventilation Opening Check:** Ensure the attic ventilation openings (soffit vents, gable vents) are not obstructed to allow proper airflow.
- **Structural Check:** Periodically inspect the mounting hardware and roof sealant for any signs of wear or damage. Re-seal or tighten as needed.
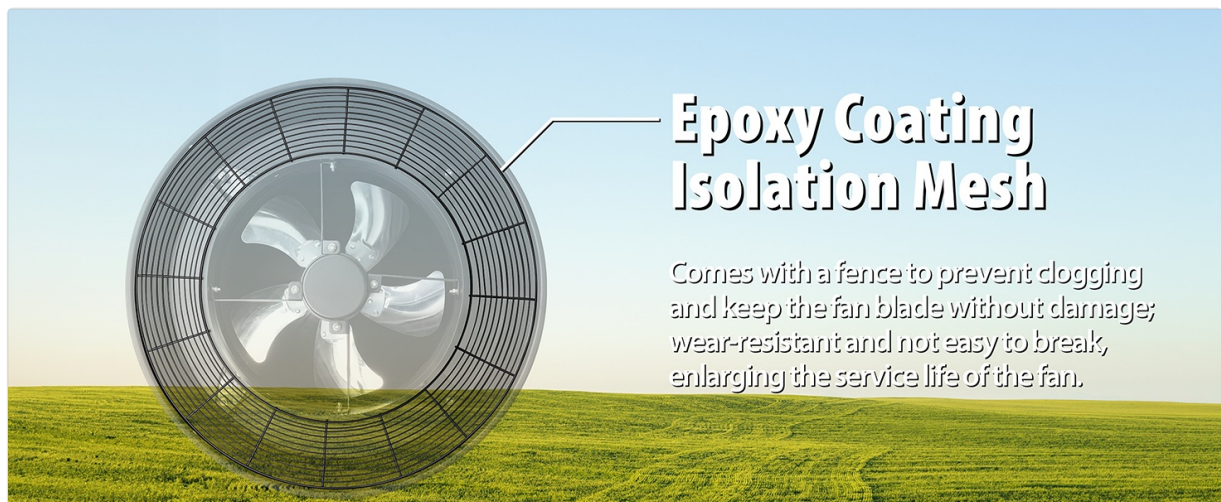

Epoxy Coating Isolation Mesh

Comes with a fence to prevent clogging and keep the fan blade without damage; wear-resistant and not easy to break, enlarging the service life of the fan.

Figure 7.1: The epoxy-coated isolation mesh protects the fan blades from debris and damage, contributing to longer service life.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Fan not operating (solar mode)	Insufficient sunlight; solar panel obstructed or dirty.	Ensure solar panel is clean and receives direct sunlight. Check for shading.
Fan not operating (AC mode)	AC adapter not plugged in; power outage; faulty adapter.	Verify AC adapter is securely plugged into a working outlet. Check household circuit breaker. Test adapter if possible.

Problem	Possible Cause	Solution
Fan running at low speed	Low sunlight intensity; attic temperature below threshold (auto mode); remote setting.	In auto mode, speed increases with temperature. In manual mode, increase speed via remote. Ensure solar panel is clean.
Remote control not working	Dead batteries; out of range; pairing issue.	Replace remote batteries. Ensure remote is within 65ft range. Re-pair remote if necessary (refer to remote instructions).
Excessive noise	Debris in fan blades; loose mounting.	Disconnect power and inspect fan blades for obstructions. Ensure fan is securely mounted.

If the problem persists after attempting these solutions, please contact voominhtec customer support.

9. SPECIFICATIONS

Feature	Detail
Brand	voominhtec
Model Name	35Watt 1450CFM Solar Attic Fan (Model: SLF-12-1)
Product Dimensions	22"D x 22"W x 10"H
Item Weight	22.4 pounds
Power Source	AC + Solar
Wattage	35 watts (Solar Panel), 50W (Motor Max)
Voltage	110 Volts (AC Adapter)
Air Flow Capacity	1250 Cubic Feet Per Minute (CFM)
Speed	1500 RPM
Noise Level	<1.7 Sones
Motor Type	Brushless DC Motor
Control Method	Remote Control
Special Features	Dual power supply, Remote Controlled, Temperature sensing, Waterproof (IPX5)
Operating Temperature	-22°F to 158°F (-30°C to 70°C)
Wind Resistance	Up to 130 mph
Certification	UL Listed Components
Recommended Coverage	Up to 1,800 sq.ft.

10. WARRANTY & SUPPORT

voominhtec products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your product or visit the official voominhtec website.
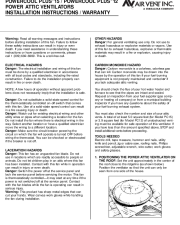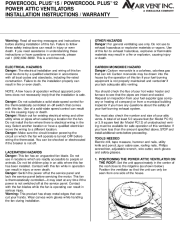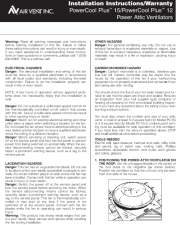
If you require technical assistance, troubleshooting, or have questions regarding your product, please contact voominhtec customer support through the following channels:

- **Website:** Visit the voominhtec Store on Amazon
- **Email:** Refer to your product packaging or warranty card for contact email.
- **Phone:** Refer to your product packaging or warranty card for contact phone number.

Please have your model number (SLF-12-1) and purchase date available when contacting support.

Related Documents - SLF-12-1

Air Vent PowerCool Plus Attic Ventilator Installation Instructions and Warranty
Comprehensive installation guide and warranty details for Air Vent PowerCool Plus 15 and PowerCool Plus 12 attic ventilators. Includes safety warnings, required tools, step-by-step installation procedures, controller operation, and warranty terms.

Air Vent Powercool Plus 15/12 Attic Ventilator Installation and Warranty Guide
Comprehensive installation instructions and warranty details for Air Vent Powercool Plus 15 and Powercool Plus 12 power attic ventilators. Includes safety warnings, tools needed, step-by-step installation, controller operation, and warranty coverage.

Air Vent PowerCool Plus 15/12 Attic Ventilator Installation and Warranty Guide
Comprehensive installation instructions and warranty details for Air Vent PowerCool Plus 15 and PowerCool Plus 12 power attic ventilators. Includes safety warnings, step-by-step installation guidance, controller operation, and warranty terms.

OREiN Bathroom Exhaust Fan with Light - Troubleshooting and FAQs
Find solutions to common issues with your OREiN Bathroom Exhaust Fan with Light, including installation, performance, noise, and moisture problems. Get answers to frequently asked questions.

	[Auray RKFN-1 Rack Fan Owner's Manual for Equipment Racks](#) Comprehensive owner's manual for the Auray RKFN-1 rack fan, detailing its specifications, installation procedures, important precautions, and a one-year limited warranty. Designed for efficient cooling of server racks with 80 CFM airflow.
	[California Air Tools 4710SQ Quiet Flow Air Compressor Owner's Manual](#) This owner's manual provides detailed instructions for the California Air Tools 4710SQ Quiet Flow Air Compressor, covering setup, operation, safety precautions, maintenance, troubleshooting, and warranty information.