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AITECAC Airbird S12

AITECAC 12 Inch Shutter Exhaust Fan with Speed Controller

Model: Airbird S12

1. Introduction

Thank you for choosing the AITECAC 12 Inch Shutter Exhaust Fan. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new ventilation system. Please read this manual thoroughly before use and retain it for future reference.
This exhaust fan is designed to provide effective ventilation and cooling for various spaces, including greenhouses, garages, attics, studios, and workshops. It features a durable construction, a powerful EC motor, and an adjustable speed controller for optimal airflow management.

2. Safety Information

WARNING: To reduce the risk of fire, electric shock, or injury to persons, observe the following:

- Read all instructions before installing or servicing this fan.
- Ensure the power supply matches the fan's voltage requirements (120 Volts).
- Always disconnect power at the service panel before servicing or cleaning the unit. Lock out the service panel to prevent power from being switched on accidentally.
- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction codes and standards.
- When cutting or drilling into walls or ceilings, do not damage electrical wiring and other hidden utilities.
- This fan is for general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
- To prevent motor bearing damage and noisy/unbalanced impellers, keep drywall spray, construction dust, etc., off the power unit.
- The fan must be properly grounded.

3. Product Features

- **Powerful and Efficient:** Provides a large airflow of 1226 CFM for quick and effective ventilation.
- **Premium Material:** Constructed from high-quality aluminum with a matte black coating, ensuring rust and weather resistance.
- **High Speed, Low Noise:** Operates at a maximum speed of 1600 RPM while maintaining a quiet environment (60 Decibels).
- **Adjustable Five-Speed Control:** Includes an infinity speed controller for precise adjustment of fan speed from 0% to 100%.
- **Automatic Metal Shutters:** Shutters open automatically when the fan is on and close when off, providing excellent sealing and protection against elements and pests.
- **Upgraded EC Copper Motor:** Features a low-energy, permanently lubricated EC motor with thermal overload protection, offering 60% more efficiency and 45% lower energy consumption than AC motors. ETL listed for safety.
- **Memory Function:** The fan resumes its last setting upon power recovery, requiring no manual reset.
- **Long Power Cord:** An 11.5 ft (3.5 m) power cord offers flexible installation options.

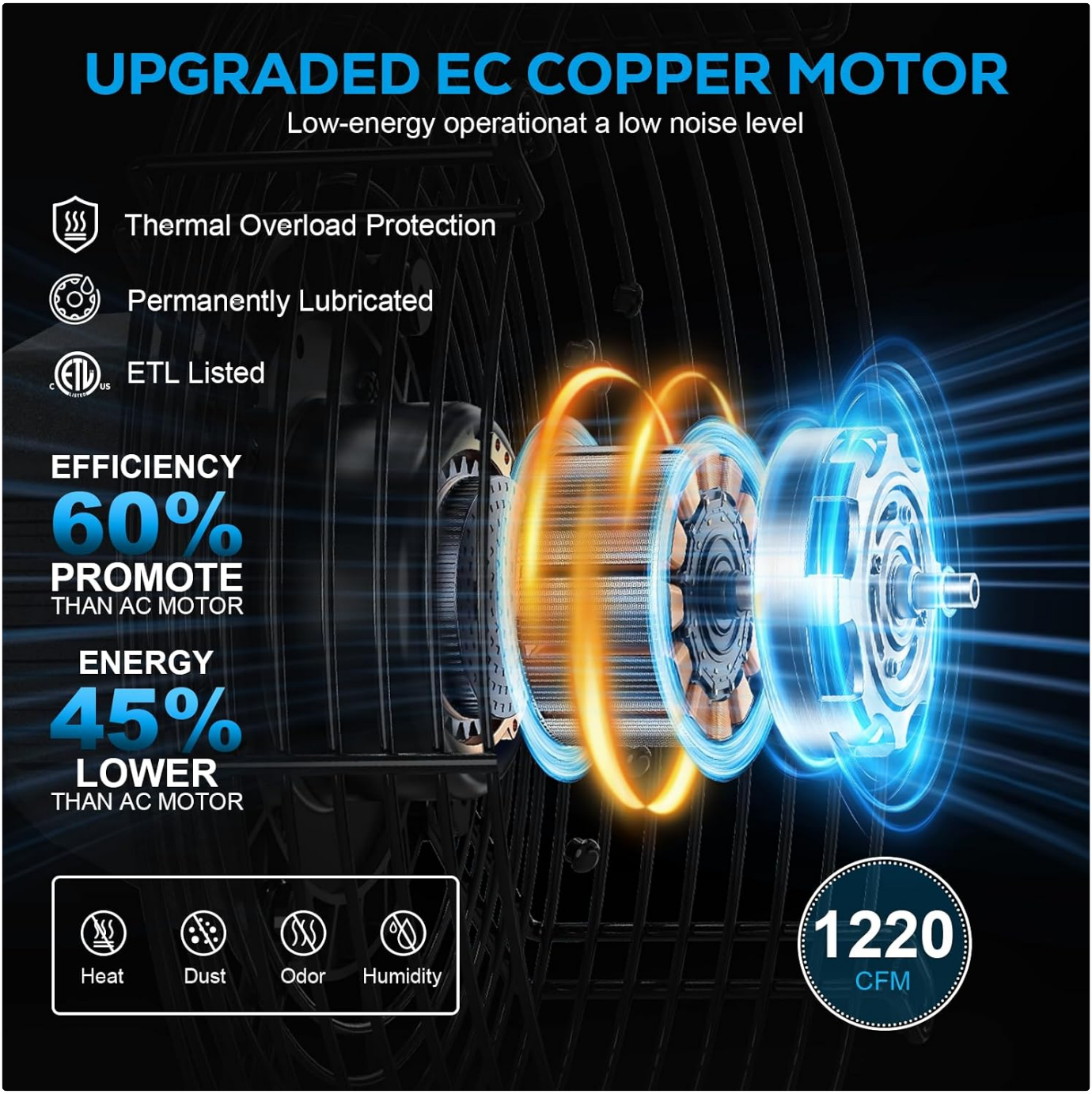


Image: Upgraded EC Copper Motor for enhanced efficiency.



Image: High-Efficiency Shutter Fan components.

4. Package Contents

Please check the package contents upon receipt. If any items are missing or damaged, contact customer support immediately.

- AITECAC 12 Inch Shutter Exhaust Fan (Model: Airbird S12)
- Infinity Speed Controller
- Mounting Hardware (screws, anchors)
- User Manual

5. Setup and Installation

Follow these steps for proper installation of your AITECAC Shutter Exhaust Fan:

1. **Prepare the Opening:** Create an appropriate opening in the wall or window for the fan. The fan dimensions are 15.7"D x 15.7"W x 8"H. Ensure the opening is slightly larger than the fan's housing for a proper fit.
2. **Mark Mounting Locations:** Place the fan into the prepared opening and mark the locations for the mounting screw holes on the wall.
3. **Drill Holes:** Use an electric drill to create pilot holes at the marked locations. Ensure the drill bit size is appropriate for the provided mounting hardware.
4. **Secure the Fan:** Insert the fan into the opening and align the mounting holes. Install the set screws to firmly secure the fan to the wall.
5. **Connect Speed Controller:** Connect the fan's power cable to the infinity speed controller.
6. **Power Connection:** Plug the speed controller into a standard 120V electrical outlet.



Image: Installation Instructions Overview.

6. Operating Instructions

The AITECAC Shutter Exhaust Fan is operated using the included infinity speed controller.

- **Power On/Off:** Press the 'Fan Speed Key & Power On/Off' button on the speed controller to turn the fan on or off.
- **Adjust Fan Speed:** Rotate the dial on the speed controller to adjust the fan's speed. The 'Fan Speed Indicator' lights will show the current speed level (five levels available). You can set the speed from 0% to 100%.
- **Automatic Shutters:** When the fan is turned on, the metal shutters will automatically open due to airflow. When the fan is turned off, the shutters will close, providing a seal.
- **Memory Function:** The fan will remember its last speed setting when powered off and will resume that setting when powered back on.



Image: Precision Speed Control.

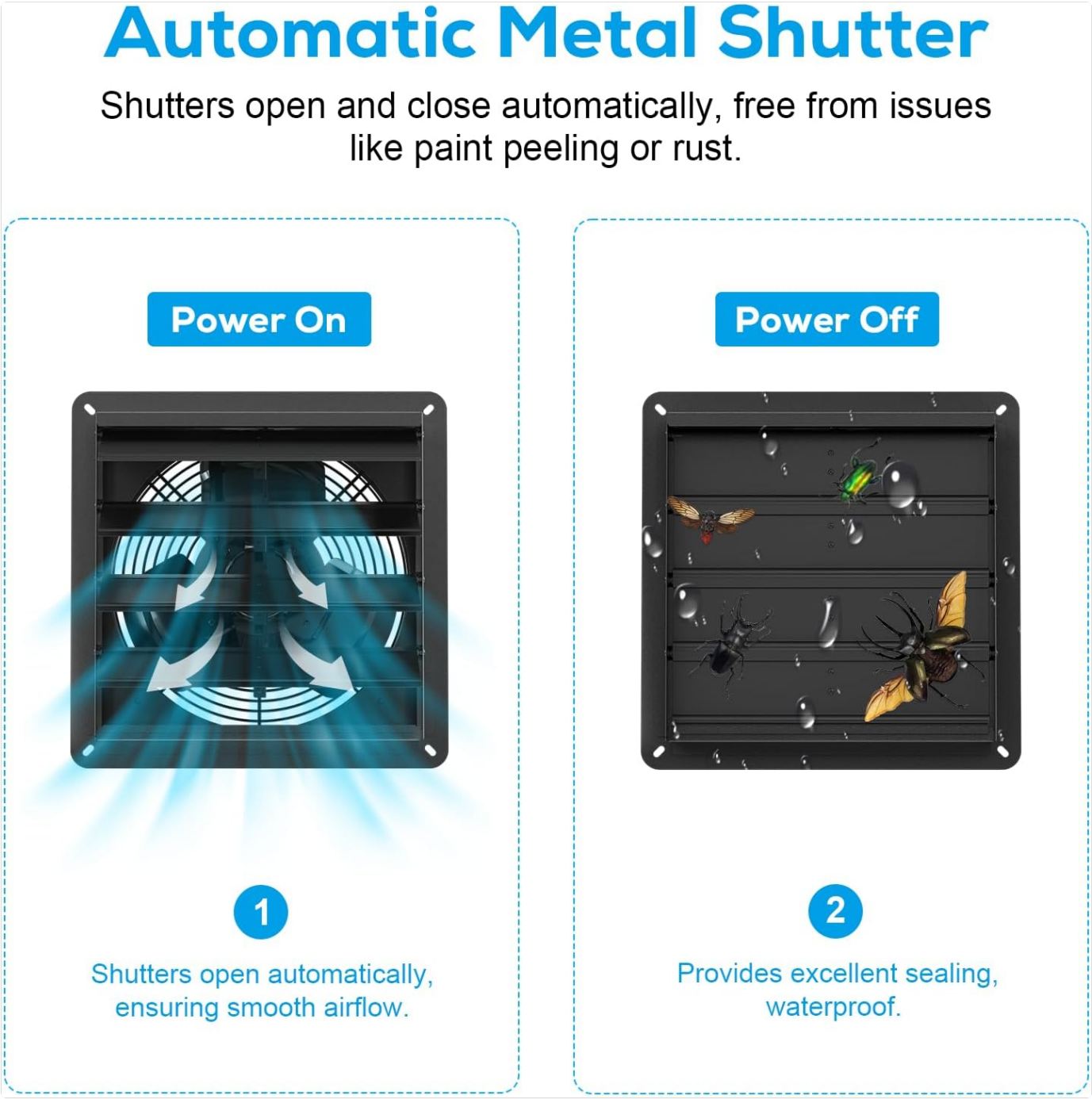


Image: Automatic Metal Shutter operation.

Video: Official AITECAC video demonstrating the 12 Inch Shutter Exhaust Fan's features, including automatic shutter operation, speed control, and ventilation capabilities.

7. Maintenance

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

- **Cleaning:** Periodically clean the fan blades and shutters to prevent dust and debris buildup, which can reduce airflow and efficiency. Disconnect power before cleaning. Use a soft cloth and mild detergent if necessary.
- **Inspection:** Regularly inspect the fan for any signs of damage, loose connections, or unusual noises. Ensure the shutters open and close freely.
- **Motor:** The EC motor is permanently lubricated and requires no additional lubrication.

8. Troubleshooting

If you encounter issues with your AITECAC exhaust fan, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan does not turn on	No power supply; Speed controller off; Loose connection	Check power outlet and circuit breaker; Ensure speed controller is turned on; Verify all connections are secure.
Low airflow	Fan speed set too low; Dirty blades/shutters; Obstruction	Increase fan speed using the controller; Clean fan blades and shutters; Remove any obstructions.
Unusual noise or vibration	Loose mounting screws; Debris in fan; Damaged blades	Tighten mounting screws; Disconnect power and remove any debris; Inspect blades for damage. If damaged, contact support.
Shutters not opening/closing	Obstruction; Damaged shutter mechanism	Disconnect power and check for obstructions; Gently test shutter movement. If mechanism is damaged, contact support.

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

9. Specifications

Feature	Specification
Model Name	Airbird S12
Brand	AITECAC
Electric Fan Design	Window Fan
Power Source	EC
Product Dimensions (D x W x H)	15.7"D x 15.7"W x 8"H (400mm x 400mm x 205mm)
Room Type	Greenhouses, Garages, Attics, Studios, Workshops
Recommended Uses	Cooling, Exhausting, Ventilating
Mounting Type	Wall Mount
Controller Type	Remote Control (Speed Controller)
Number of Speeds	5 (Adjustable)

Feature	Specification
Noise Level	60 Decibels
Wattage	35 watts
Number of Blades	5
Air Flow Capacity	1226 CFM
Speed	1600 RPM
Voltage	120 Volts
Indoor/Outdoor Usage	Indoor, Outdoor
Material	Aluminum (housing), Plastic (blades)
Item Weight	8.6 Pounds (3.9 kg)
Certification	ETL Listed



Image: Detailed Product Specifications.

10. Warranty and Support

AITECAC products are designed for reliability and performance. For warranty information, please refer to the product packaging or contact AITECAC customer support directly. Keep your purchase receipt as proof of purchase.

If you have any questions, require technical assistance, or need to report an issue, please contact our customer support team through the official AITECAC website or your retailer's support channels.

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