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VEVOR EF-12-ECG

VEVOR 12-Inch Exhaust Fan with Temperature Humidity Controller User Manual

Model: EF-12-ECG

1. Product Overview

The VEVOR 12-Inch Exhaust Fan with Temperature Humidity Controller is designed to efficiently manage air quality and climate in various enclosed spaces. It effectively removes heat, humidity, unpleasant odors, and dust, ensuring a comfortable and healthy environment. Equipped with a smart controller, this fan offers precise control over temperature and humidity levels, with adjustable fan speeds to meet specific ventilation needs.



Image: VEVOR 12-Inch Exhaust Fan installed in a greenhouse, demonstrating its application in climate control.

2. Safety Instructions

- Always disconnect power before servicing or cleaning the fan.
- Ensure proper grounding to prevent electrical shock.
- Do not operate the fan with a damaged cord or plug.
- Keep hands, hair, and loose clothing away from moving parts.
- Install the fan securely according to local building codes and regulations.
- Do not use in environments with flammable or explosive gases unless specifically rated for such use.
- This fan is designed for indoor use. While robust, avoid direct exposure to heavy rain or extreme weather conditions.

3. Package Contents

Verify that all components are present and undamaged upon unpacking:

- 1 x VEVOR 12-Inch Shutter Exhaust Fan
- 1 x Smart Temperature & Humidity Controller
- 4 x Mounting Bolts
- User Manual (this document)

4. Setup and Installation

The VEVOR exhaust fan comes fully assembled for a quick and easy installation. Simply mount it and plug it in.

4.1 Mounting the Fan

1. Choose a suitable location for installation, ensuring adequate space for airflow and access for maintenance.
2. Mark the drilling points using the fan's mounting holes as a template.
3. Drill appropriate holes for the provided mounting bolts.
4. Securely fasten the exhaust fan to the wall or frame using the 4 mounting bolts.

4.2 Connecting the Controller

The smart controller connects directly to the fan via a dedicated cable. It also features a sensor for accurate readings.

1. Connect the fan's control cable (approximately 8 ft long) to one of the input ports on the smart controller.
2. Plug the temperature/humidity sensor cable into the designated 'SENSOR' port on the controller.
3. Plug the fan's 5.9 ft power cord into a standard 120V/60Hz electrical outlet.
4. Mount the controller in a convenient location using the provided screws or keyhole slots.



Image: The fan's 'Plug and Play' setup, highlighting the power cord and controller connection.

Video: Official VEVOR demonstration of the EC Shutter Exhaust Fan, including installation and basic operation.

5. Operating Instructions

The smart controller allows for versatile operation modes and precise adjustments.

Image: Close-up of the smart controller display, illustrating its various settings and modes.

5.1 Controller Overview

The controller displays current temperature, humidity, fan speed, and active settings. It features four main buttons:

- **Mode Button:** Cycles through different operating modes (ON, OFF, TIMER, AUTO, ALARM).
- **Up/Down Arrows:** Adjusts numerical settings (e.g., temperature, humidity, speed, timer duration).
- **Leaf Button (Power/Lock):** Turns the screen on/off. Hold for 2 seconds to lock/unlock the LCD display and prevent

accidental changes.

5.2 Operating Modes

Press the Mode button to cycle through the following options:

- **ON Mode:** The fan runs continuously. Use Up/Down arrows to set fan speed from 0-10.
- **OFF Mode:** The fan remains off.
- **TIMER Mode:** Set a specific duration (up to 9 hours) for the fan to run. The fan will turn off automatically once the timer expires.
- **AUTO Mode:** The fan automatically turns on or off based on preset temperature and humidity triggers. You can set high/low temperature and high/low humidity thresholds. The fan will adjust its 10-speed setting to maintain the desired climate.
- **ALARM Mode:** Set temperature or humidity alarm points. The controller will emit a quiet beeping noise if the readings go outside the set range.

5.3 Setting Parameters

To adjust settings within a mode (e.g., target temperature in AUTO mode):

1. Navigate to the desired mode using the Mode button.
2. Use the Up/Down arrows to change the numerical value for the setting (e.g., target temperature, humidity percentage, or fan speed).
3. The display will show the current setting.

Note: If the fan is plugged in without the controller connected, it will run continuously at full speed until unplugged.

6. Maintenance

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

- **Cleaning:** Periodically clean the fan blades and housing to prevent dust and debris buildup, which can reduce efficiency. Use a soft, damp cloth. Ensure power is disconnected before cleaning.
- **Motor:** The premium EC motor is fully enclosed and features permanent lubrication, requiring minimal maintenance.
- **Shutter:** Ensure the aluminum alloy shutters open and close freely. Clean any obstructions that might prevent smooth operation.

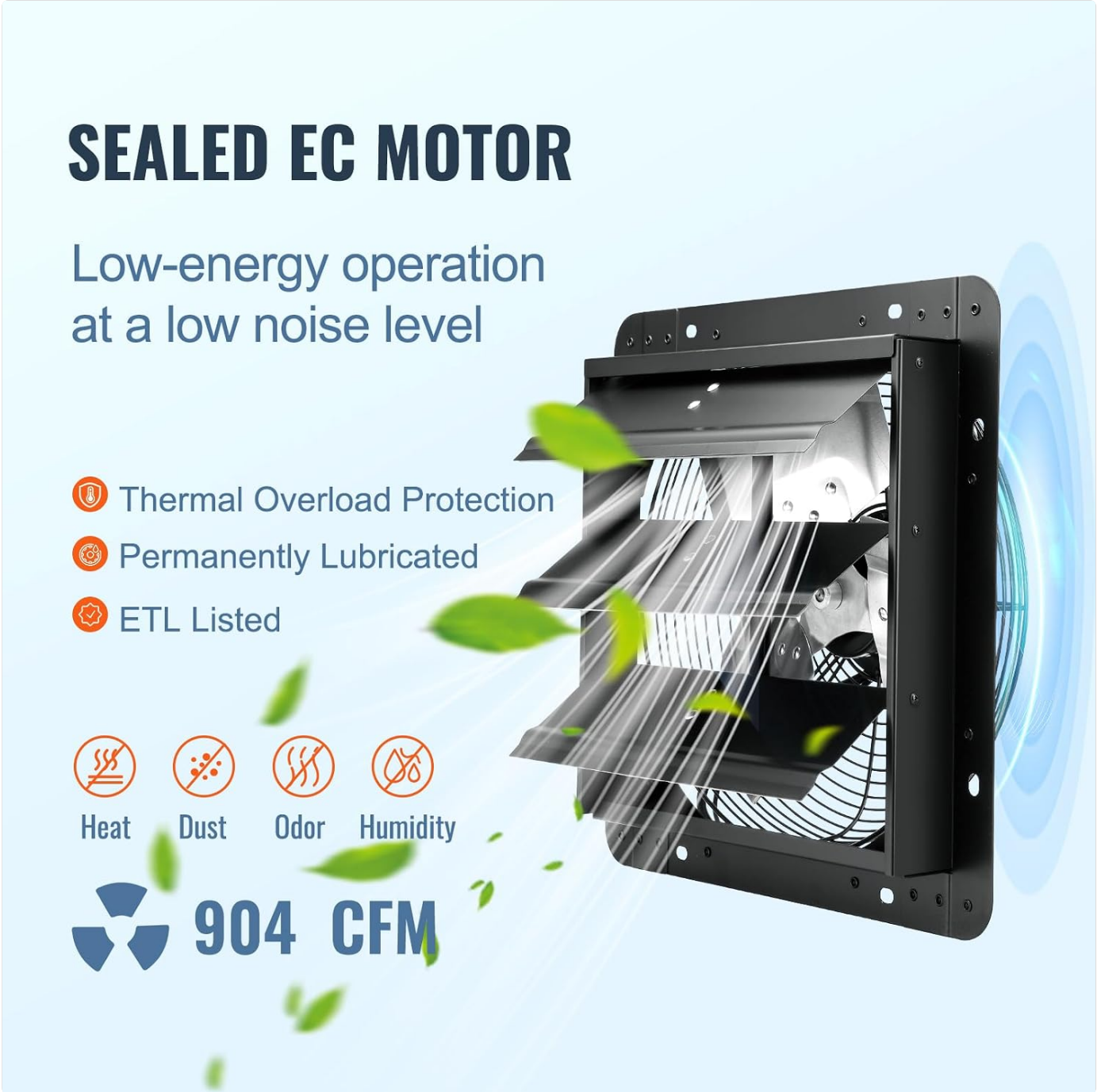


Image: Diagram highlighting the sealed EC motor, emphasizing its low-energy operation and thermal protection.

7. Troubleshooting

Problem	Possible Cause	Solution
Fan not turning on.	No power; Controller in OFF mode; Controller not connected.	Check power supply; Select ON, TIMER, or AUTO mode; Ensure controller is properly connected.
Controller display is off or unresponsive.	Screen locked; Power issue.	Hold Leaf button for 2 seconds to unlock; Check power connection to fan.
Fan runs continuously despite settings.	Controller not connected; Incorrect mode selected.	Ensure controller is connected; Select TIMER or AUTO mode for automated operation.

Problem	Possible Cause	Solution
Louvers not opening/closing properly.	Obstruction; Mechanism issue.	Inspect and clear any debris; Contact VEVOR support if mechanism is faulty.
Fan is unusually noisy.	Debris on blades; Loose mounting; Motor issue.	Clean blades; Tighten mounting bolts; Contact VEVOR support if motor noise persists.

8. Specifications

Feature	Specification
Brand	VEVOR
Model Name	Shutter Exhaust Fan, 12" with Temperature Humidity Controller, EC-motor
Item Model Number	EF-12-ECG
Size	12 Inch
Product Dimensions	6.1"D x 15"W x 15"H
Air Flow Capacity	940 Cubic Feet Per Minute (CFM)
Speed	1650 RPM
Number of Power Levels	10
Voltage	120V
Wattage	40 watts
Power Source	Corded Electric
Control Method	Remote (via Controller)
Special Feature	Temperature & Humidity Controller
Material	Aluminum Alloy (Blades), Powder-coated Steel (Frame)
Item Weight	10.1 Pounds
Certification	ETL Listed
Indoor/Outdoor Usage	Indoor (Robust for various environments)

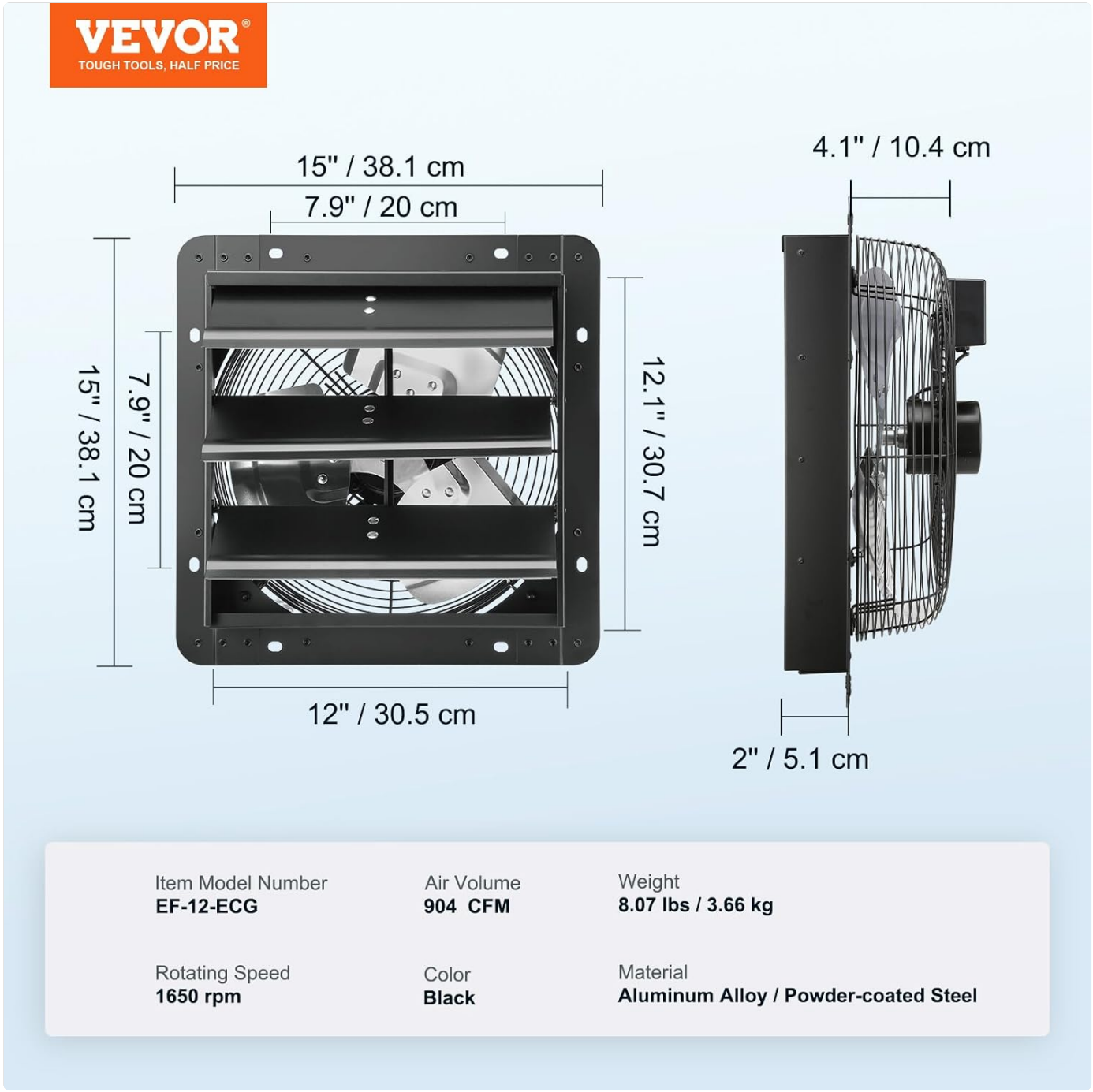


Image: Detailed dimensions of the VEVOR 12-Inch Exhaust Fan.

9. Warranty and Support

For specific warranty information, product registration, or technical support, please refer to the official VEVOR website or contact their customer service directly. Keep your purchase receipt for warranty claims.

Visit the VEVOR Store: VEVOR Official Store

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