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VEVOR EF-14-ECG

VEVOR 14" Exhaust Fan with Temperature Humidity Controller User Manual

Model: EF-14-ECG

1. Important Safety Information

Please read and understand all instructions before installing or operating this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always disconnect power before servicing or cleaning the fan.
- Ensure the power supply matches the fan's specifications (120V/60Hz).
- 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 to prevent accidental dislodgement.
- This fan is designed for indoor use.
- Do not immerse the fan or controller in water or other liquids.

2. Product Overview

The VEVOR 14" Exhaust Fan with Temperature Humidity Controller is designed to efficiently ventilate and cool various indoor spaces such as greenhouses, garages, workshops, sheds, and attics. It features a smart controller for automated airflow based on temperature and humidity, an EC motor for energy efficiency, and a durable, rust-proof construction.

2.1 Key Features

- **14-inch Exhaust Fan:** Provides 1513 CFM airflow, ETL Listed, 1600 rpm speed.
- **High Performance EC Motor:** 120V/60Hz, 30W, low noise, energy-saving, thermal protection, permanently lubricated.
- **Smart Programming Controller:** Features temperature and humidity triggers, 10-speed adjustable settings, Timer Mode, Alarm Mode, and Trigger Mode.
- **Durable Construction:** Powder-coated steel frame, aluminum alloy fan, and automatic gravity shutter for weather,

liquid, and dust resistance.

- **Plug and Play Installation:** Fully assembled with a 5.6 ft power cord, includes 4 bolts for mounting.



Image 1: VEVOR 14-inch Exhaust Fan with its smart temperature and humidity controller. This image shows the main components of the product.

3. Setup and Installation

The VEVOR 14" Exhaust Fan is designed for straightforward installation. It comes fully assembled, requiring only mounting and power connection.

3.1 Unpacking

Carefully remove all components from the packaging. Verify that all parts listed in the "Included Components" section of the specifications are present and undamaged.

3.2 Mounting Location

Select a suitable wall or opening for installation. Ensure the location allows for proper airflow and is structurally sound to support the fan's weight (approximately 11 pounds). Consider the fan's dimensions (17.1"W x 17.1"H) when preparing the opening.



Image 2: Example installation of the VEVOR exhaust fan in a greenhouse setting, demonstrating its application for ventilation.

3.3 Installation Steps

1. **Prepare Opening:** If installing in a new opening, ensure it is appropriately sized for the fan (e.g., 14.1" x 14.1" for the fan body, with overall dimensions 17.1" x 17.1").
2. **Position Fan:** Place the fan into the prepared opening or against the mounting surface.
3. **Secure Fan:** Use the provided 4 bolts to securely fasten the fan to the wall or frame. Ensure it is level and stable.
4. **Connect Power:** Plug the 5.6 ft power cord into a standard 120V/60Hz electrical outlet.

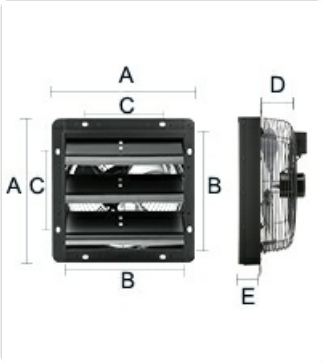


Image 3: A diagram illustrating the key dimensions of the exhaust fan, useful for planning installation.

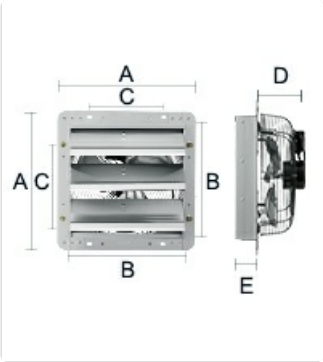


Image 4: Another diagram illustrating the key dimensions of the exhaust fan, useful for planning installation.

4. Operating Instructions

The VEVOR exhaust fan is controlled by an intelligent controller that allows for precise management of temperature, humidity, and fan speed.

4.1 Controller Overview

Image 5: Close-up of the intelligent controller, showing its display and buttons for mode setting, up, down, and ECO mode.

4.2 Basic Operation

- **Power ON/OFF:** Use the dedicated ON/OFF button on the controller to turn the fan system on or off.
- **Mode Setting:** Press the "Mode Setting" button to cycle through available modes: Timer Mode, Alarm Mode, Trigger Mode, and Auto Mode.
- **Adjusting Settings:** Use the "Up" and "Down" buttons to adjust temperature, humidity, or fan speed settings within the selected mode.
- **ECO Mode:** Activate ECO mode for optimized energy consumption.

4.3 Smart Programming (Auto Mode)

In Auto Mode, the fan automatically adjusts its operation based on set temperature and humidity triggers. The controller supports up to 10 speed settings.

- **Temperature Triggers:** Set desired high and low temperature thresholds. The fan will activate or adjust speed to maintain the temperature within the set range.

- **Humidity Triggers:** Set desired high and low humidity thresholds. The fan will activate or adjust speed to maintain humidity within the set range.
- **Speed Adjustment:** The fan's 10-speed settings allow for precise control over airflow in response to environmental changes.



Image 6: Detailed view of the intelligent programming interface, highlighting the various modes and control buttons.

5. Maintenance

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

5.1 Cleaning

- **Disconnect Power:** Always unplug the fan before cleaning.
- **Fan Blades and Housing:** Use a soft, damp cloth to wipe down the fan blades, frame, and shutter. For stubborn dirt, a mild detergent can be used. Ensure all parts are dry before reconnecting power.
- **Controller:** Wipe the controller surface with a dry or slightly damp cloth. Do not use abrasive cleaners or immerse the controller in water.

5.2 Lubrication

The EC motor is permanently lubricated and does not require additional lubrication.

5.3 Shutter Mechanism

Periodically check the automatic gravity shutter for smooth operation. Ensure no debris obstructs its movement. The shutter is designed to close automatically when power is off, providing protection against elements.



Image 7: Illustration of the automatic gravity shutter mechanism, showing its fully closed and open positions.

6. Troubleshooting

This section provides solutions to common issues you might encounter with your VEVOR exhaust fan.

Problem	Possible Cause	Solution
Fan does not turn on.	No power supply; Controller is off; Damaged power cord/plug.	Check power outlet; Ensure controller is ON; Inspect power cord for damage.
Fan runs but airflow is weak.	Fan blades are dirty; Obstruction in airflow path; Incorrect speed setting.	Clean fan blades and housing; Remove any obstructions; Adjust fan speed on controller.

Problem	Possible Cause	Solution
Controller display is blank.	No power to controller; Controller malfunction.	Check power connection; Contact customer support if issue persists.
Shutter does not open/close properly.	Obstruction in shutter mechanism; Damaged shutter.	Clear any debris; Inspect shutter for damage.

7. Specifications

Attribute	Value
Brand	VEVOR
Model Name	Shutter Exhaust Fan, 14" with Temperature Humidity Controller, EC-motor
Item Model Number	EF-14-ECG
Size	14 Inch
Product Dimensions	6.2"D x 17.1"W x 17.1"H
Item Weight	11 Pounds
Power Source	Corded Electric
Voltage	120V
Wattage	30 watts
Air Flow Capacity	1513 Cubic Feet Per Minute (CFM)
Speed	1600 RPM
Number of Power Levels	10
Control Method	Remote (Controller)
Special Feature	Temperature & Humidity Controller
Material	Aluminum Alloy / Powder-coated Steel
Finish Type	Powder Coated
Specification Met	ETL
Included Components	1 x Remote Controller, 1 x Shutter Exhaust Fan
UPC	840281570812

8. Warranty and Support

For warranty information and technical support, please refer to the official VEVOR website or contact VEVOR customer service directly. Keep your purchase receipt for warranty claims.
VEVOR Official Website: www.vevor.com

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