VEVOR 6-Inch Inline Duct Fan

VEVOR Inline Duct Fan User Manual

Model: 6-Inch Inline Duct Fan | Brand: VEVOR

1. Introduction and Overview

The VEVOR Inline Duct Fan is a high-performance ventilation solution designed to optimize air circulation in various environments. Equipped with a quiet EC motor and a smart temperature and humidity controller, it efficiently manages heat, humidity, and smoke, ensuring fresh and clean air. Ideal for grow tents, hydroponic rooms, electronic equipment spaces, kitchens, and basements, this fan provides reliable and automated climate control.

Figure 1: VEVOR 6-Inch Inline Duct Fan with its smart temperature and humidity controller.

2. Product Features

2.1 Universal Applications

This inline duct fan is designed for broad utility, effectively exhausting heat, humidity, and smoke to improve air quality. It is suitable for air planting tents, hydroponic planting rooms, electronic equipment rooms, kitchens, and basements.

Figure 2: The inline duct fan integrated into a grow tent setup for ventilation.

2.2 Powerful Airflow

The fan provides a robust airflow of 402 CFM, ensuring efficient ventilation and dehumidification to maintain clean and fresh air circulation in various dry environments.

2.3 Quiet EC-Motor

Equipped with a high-quality EC motor, the fan delivers strong power with a low noise level of 32 dB, minimizing disturbance. The EC motor also offers 30% energy savings, extending the product's service life.

Figure 3: Visual representation of the fan's quiet operation at 32 dB.

2.4 Smart Temperature and Humidity Controller

The smart controller allows for flexible operation with ON/OFF/TIMER/AUTO modes. It automatically starts or stops the fan based on set temperature and humidity parameters. An auto alarm function is included. Note: The controller does not automatically adjust fan speed; speed must be adjusted manually.

Figure 4: The smart controller with its display and control buttons.

2.5 Easy Installation & Thoughtful Accessories

The fan comes with stainless steel clamps, non-vibration rubber mats, and straps for effortless installation. It supports both hanging and wall-mounted configurations.

Figure 5: Installation accessories provided with the fan.

2.6 Official Product Video

Video 1: An official product video demonstrating the VEVOR Inline Duct Fan, including its variable speed controller and features. This video highlights the fan's quiet operation and ease of use in various settings.

3. Specifications

Specification	Value
Product Dimensions	12"L x 10"W x 8.4"H
Brand	VEVOR
Voltage	110 Volts
Wattage	38 watts

Specification	Value
Noise Level	32 dB
Maximum Rotational Speed	2800 RPM
Air Flow Capacity	402 Cubic Feet Per Minute
Material	Copper
Item Model Number	6-Inch Inline Duct Fan

4. Setup

4.1 Unpacking and Inspection

Carefully unpack all components and inspect for any damage. Ensure all listed accessories (stainless steel clamps, rubber mats, straps) are present.

4.2 Mounting the Fan

The fan can be mounted by hanging or wall-mounting. The mounting bracket is detachable for easier installation. Loosen the two Phillips head screws and the nut on the side of the fan to separate the main fan body from the mounting bracket. Secure the bracket to your desired location using appropriate screws and drywall anchors (if needed). Reattach the fan body to the mounted bracket and tighten the screws.

Figure 6: Example of fan installation with ducting in a grow tent.

4.3 Connecting the Controller and Probe

Connect the fan to the smart controller using the 3-pin plug from the fan to either 'Out 1' or 'Out 2' on the controller. Plug the temperature and humidity probe (4-pin plug) into the 'Sensor' port on the controller. Once all connections are secure, plug the power adapter into a standard 110V wall outlet.

Video 2: Demonstration of connecting the fan and sensor to the smart controller.

5. Operating Instructions

The smart controller automatically powers on when plugged in. The display shows current temperature and humidity readings.

5.1 Mode Selection

- **ON/OFF Mode:** Press the power button to manually turn the fan on or off.

- **TIMER Mode:** Set a specific duration for the fan to operate.
- **AUTO Mode:** The fan will automatically activate or deactivate based on predefined temperature (High Temp, Low Temp) and humidity (High Humid, Low Humid) settings.

5.2 Setting Parameters

Use the UP and DOWN buttons on the controller to adjust fan speed (levels 1-10) and set desired temperature/humidity thresholds for AUTO mode. Pressing UP and DOWN simultaneously will turn AUTO MODE off.

5.3 Alarm Function

The controller includes an auto alarm function that alerts you if temperature or humidity levels exceed or fall below your set parameters.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your VEVOR Inline Duct Fan.

- **Cleaning:** Periodically clean the fan blades and housing to prevent dust and debris buildup, which can reduce airflow and efficiency. Ensure the unit is unplugged before cleaning.
- **Inspection:** Regularly check all connections, including power cables and sensor probes, for any signs of wear or damage.
- **EC Motor:** The EC motor is designed for long-lasting use with minimal downtime. No specific user maintenance is required for the motor itself.

7. Troubleshooting

If you encounter issues with your VEVOR Inline Duct Fan, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan not turning on	No power, loose connections, controller in OFF mode.	Check power outlet, ensure all cables are securely connected, switch controller to ON or AUTO mode.
Inaccurate temperature/humidity readings	Sensor probe dirty or improperly placed.	Clean the sensor probe and ensure it is placed in an area representative of the environment you wish to monitor.
Fan not responding to AUTO mode settings	Parameters set too wide, AUTO mode is off.	Adjust temperature/humidity settings to a narrower range. Ensure AUTO mode is activated.
Excessive noise or vibration	Loose mounting, debris in fan, fan speed too high.	Check mounting for tightness, clean fan blades, reduce fan speed if necessary. Use rubber mats to reduce vibration.

7.1 Important Safety Warnings

To prevent damage and ensure safe operation, observe the following:

- Do not place the fan in areas with excessive steam or smoke.
- This system is not waterproof. Avoid placing it where it could get wet, such as near windows exposed to rain, to prevent electrical issues.

8. Warranty and Support

VEVOR provides a comprehensive user manual with this product, detailing all aspects of its operation, safety, assembly, and functionality. For any further inquiries or technical assistance, please refer to the detailed user manual provided with your purchase or contact VEVOR customer support directly.