

VIVOSUN VSF-BF410W

VIVOSUN VSF-BF410W Register Booster Fan User Manual

Model: VSF-BF410W

1. INTRODUCTION

The VIVOSUN VSF-BF410W Register Booster Fan is designed to enhance airflow from your existing HVAC system through standard 4" x 10" register holes. This device helps to balance room temperatures, improving comfort and potentially reducing energy consumption. It features adjustable fan speeds, thermostat control, and smart app connectivity for convenient operation.

2. SAFETY INFORMATION

- Ensure the power supply matches the fan's requirements (12V DC/6.5W).
- Do not operate the fan with a damaged power cord or plug.
- Keep fingers and other objects away from the fan blades during operation.
- Do not immerse the unit in water or expose it to excessive moisture.
- Unplug the fan before cleaning or performing any maintenance.
- This product is designed for indoor use only.

3. PACKAGE CONTENTS

Verify that all components are present upon unpacking:

- VIVOSUN Register Booster Fan Unit (VSF-BF410W)
- 12 ft Reversible Power Adapter
- User Manual

4. PRODUCT OVERVIEW

Key Features:

- **10-Speed Control:** Allows precise adjustment of airflow.

- **App Control:** Wi-Fi enabled for remote control via the VIVOSUN app.
- **Adjustable Wind Direction:** Louvers can be manually adjusted to direct airflow.
- **Thermostat Control:** Monitors temperature and activates based on preset levels.
- **Quiet Operation:** Operates at a low noise level, down to 18 dBA at the lowest speed.
- **Durable Design:** Features PWM-controlled DC motor and dual ball bearings for extended lifespan.

Components:

The fan unit includes an integrated LCD display, control buttons for manual operation, and adjustable airflow vanes.



Figure 1: Control Panel and Internal Fans

5. SETUP AND INSTALLATION

This booster fan is designed to fit standard 4" x 10" register holes. Please measure your vent opening before installation to ensure compatibility.

1. **Measure Your Vent:** Confirm your existing register opening is 4 inches by 10 inches.
2. **Placement:** The fan can be installed in floor or wall vents. Ensure the power cable can reach an outlet.

3. **Insert the Fan:** Carefully place the booster fan into the register opening. It should fit snugly.
4. **Connect Power:** Plug the 12 ft reversible power adapter into the fan unit and then into a standard AC power outlet.



Figure 2: Measuring Vent for Proper Fit

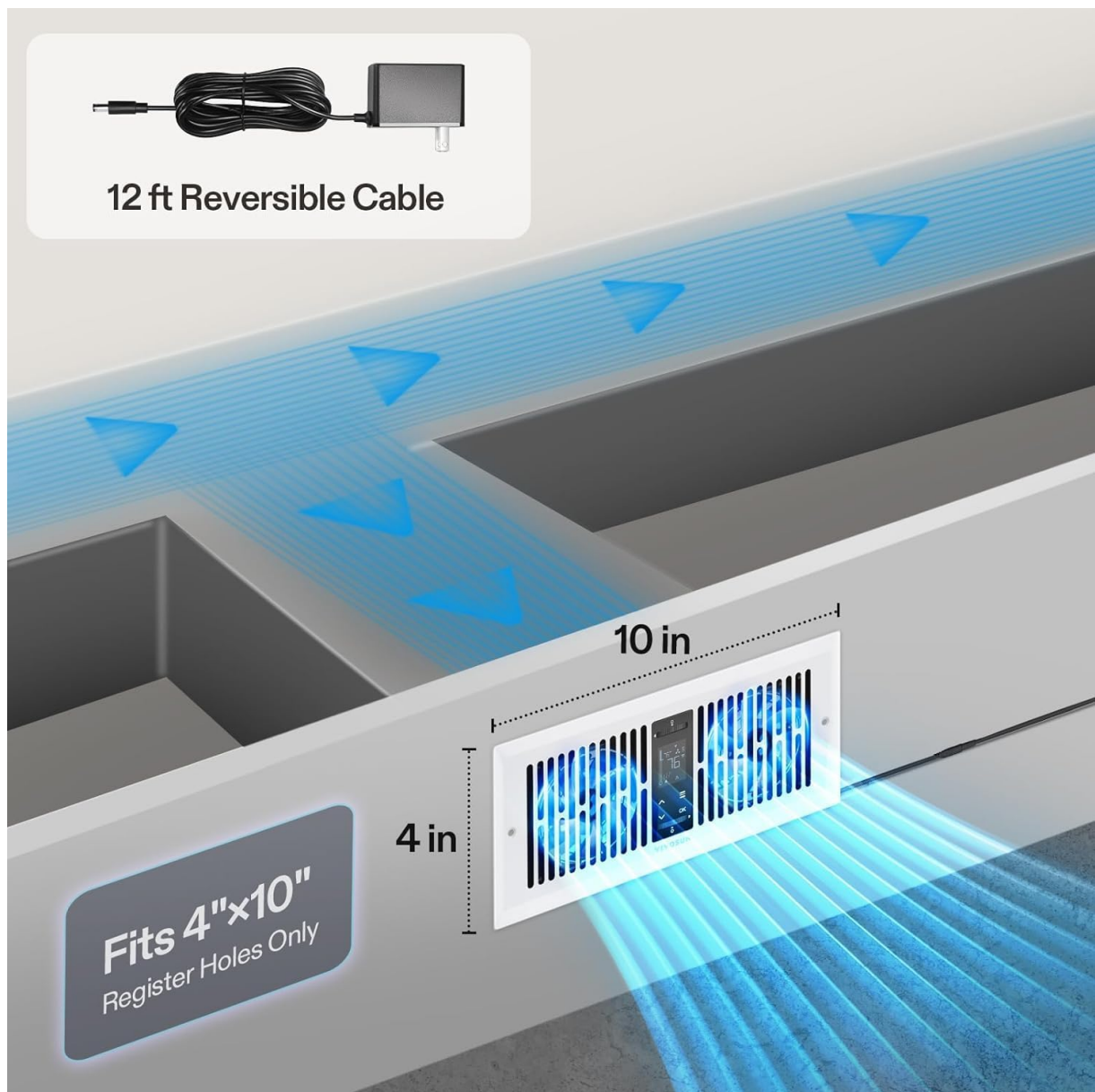


Figure 3: Fan Installation and Power Cable

Installation Video:

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Video 1: Overview of the Register Booster Fan's features and installation process.

6. OPERATING INSTRUCTIONS

6.1 Manual Control

The fan can be operated directly using the integrated LCD control panel:

- **Power On/Off:** Press the power button on the control panel.
- **Adjust Fan Speed:** Use the up/down arrows to select one of the 10 available fan speeds.
- **Set Temperature:** The fan monitors ambient temperature. You can set trigger temperatures for cooling or heating modes.
- **Adjust Wind Direction:** Manually slide the levers on the top of the unit to adjust the angle of the airflow vanes. This allows for broader coverage or focused airflow. The vanes can also be fully closed to prevent dust accumulation when the fan is not in use.

Adjustable Wind Direction

Precise directional comfort at your fingertips.


 **170° Max**
Broader Coverage



Figure 4: Adjustable Wind Direction Vanes

6.2 App Control

For advanced control and remote operation, download the VIVOSUN app on your smartphone.

1. **Download the App:** Search for "VIVOSUN" in your device's app store and install the application.
2. **Create an Account:** Follow the in-app instructions to create a VIVOSUN account or log in if you already have one.
3. **Pair the Device:** In the app, select "Add Device" and follow the prompts to connect your VSF-BF410W fan to your Wi-Fi network. Ensure your phone is connected to a 2.4GHz Wi-Fi network during pairing.
4. **Control Functions:** Once connected, you can remotely adjust fan speeds, set cooling/heating triggers, schedule operations, and access other advanced features directly from your phone.

Effortless App Control

Wi-Fi enabled for easy connection to the Vivosun app, enabling remote control anytime, anywhere.



Figure 5: VIVOSUN App Interface

App Connection Video:

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Video 2: Step-by-step guide on connecting the booster fan to the VIVOSUN app.

7. MAINTENANCE

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

- **Cleaning:** Periodically wipe the exterior of the fan with a soft, dry cloth.
- **Fan Blades:** If dust accumulates on the fan blades, carefully remove the fan from the vent and use a soft brush or compressed air to clean the blades. Ensure the fan is unplugged before cleaning.
- Do not use abrasive cleaners or solvents.

8. TROUBLESHOOTING

If you encounter issues with your VIVOSUN Register Booster Fan, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan does not turn on.	No power, loose connection.	Check if the power adapter is securely plugged into the fan and the wall outlet. Verify the outlet has power.
App cannot connect to the fan.	Incorrect Wi-Fi, fan not in pairing mode, distance from router.	Ensure your phone is on a 2.4GHz Wi-Fi network. Reset the fan to pairing mode (refer to app instructions). Move the fan closer to the Wi-Fi router during setup.
Fan is noisy at low speeds.	Dust accumulation, obstruction.	Unplug the fan and inspect for dust or debris on the fan blades. Clean as described in the Maintenance section.
Inconsistent airflow.	Vanes not adjusted correctly, HVAC system issues.	Adjust the wind direction vanes. Check your main HVAC system for proper operation.

If the problem persists after attempting these solutions, please contact VIVOSUN customer support for further assistance.

9. SPECIFICATIONS

Attribute	Value
Model Name	Register Booster Fan
Model Number	VSF-BF410W
Register Size	4" x 10"
Power	6.5 W
Airflow	120 CFM
Engine	Dual 92 mm Fans
Noise Level	18 dBA (lowest speed)
Frame Material	Ferrous Metal
Product Dimensions	11.8"D x 2.2"W x 5.5"H
Item Weight	2.99 pounds
Power Source	AC
Control Method	App
Indoor/Outdoor Usage	Indoor

Specifications

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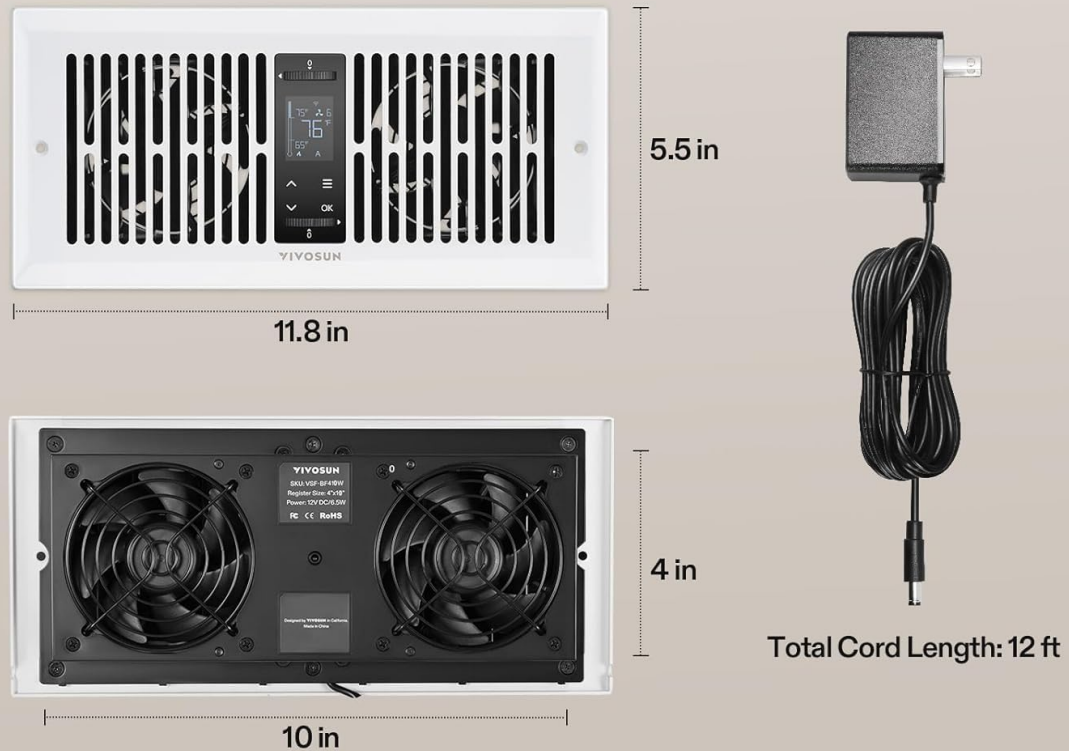


Figure 6: Detailed Product Specifications

10. WARRANTY AND SUPPORT

VIVOSUN products are designed for reliability and performance. For warranty information, product support, or to report any issues, please visit the official VIVOSUN website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.

Contact Information:

- **Website:** www.vivosun.com
- **Email:** Refer to the VIVOSUN website for current support email addresses.
- **Phone:** Refer to the VIVOSUN website for current support phone numbers.

