

VIVOHOME

THANK
YOU!

NOTE:

To continuously improve its products, VIVOHOME reserves the right to modify this information without prior notification.

For any questions regarding assembly, please watch the video on the product page or contact our customer service. Our customer service will gladly assist you with any additional questions, comments, or concerns.

Thank you for using VIVOHOME products in your home!

Thank You for Purchasing from

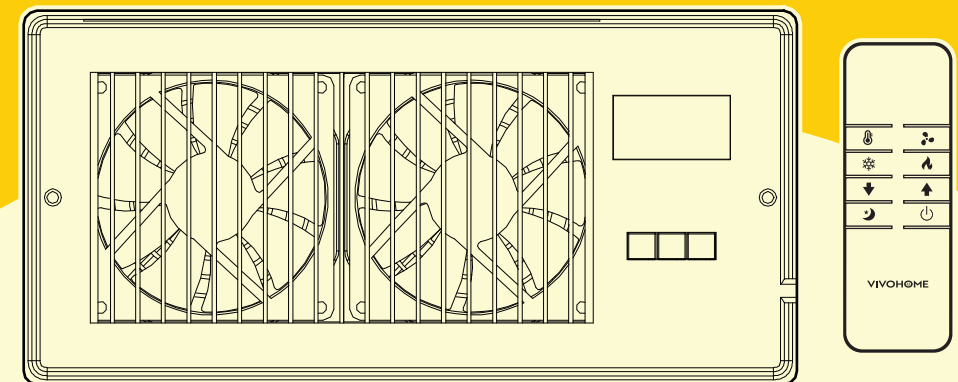
VIVOHOME

Made in China

VIVOHOME

HOW-TO

USER MANUAL



4" x 10" Register Booster Fan

Assembly is EASY!

WE WANT
YOU TO
ENJOY LIFE
AT HOME

GO TO THE PRODUCT LISTING PAGE
FOR AN INSTRUCTIONAL VIDEO!

CONTENTS

Product Introduction.....	1
What's in the Box	2
Installation Guide	2
Panel & Remote Control	4
Mode Configuration.....	7
Cooling Mode (Summer Mode).....	7
Heating Mode (Winter Mode).....	8
Sleep Mode	9
Q&A.....	11
Warranty	13

Product Introduction



The VIVOHOME Register Booster Fan is designed to enhance vent airflow to optimize your HVAC system's efficiency. It operates based on the air temperature inside the duct, which is detected by its built-in sensor. By setting your preferred temperature thresholds, the fan helps circulate hot or cold air more effectively, improving room temperature consistency, reducing the strain on your HVAC system, and saves energy.

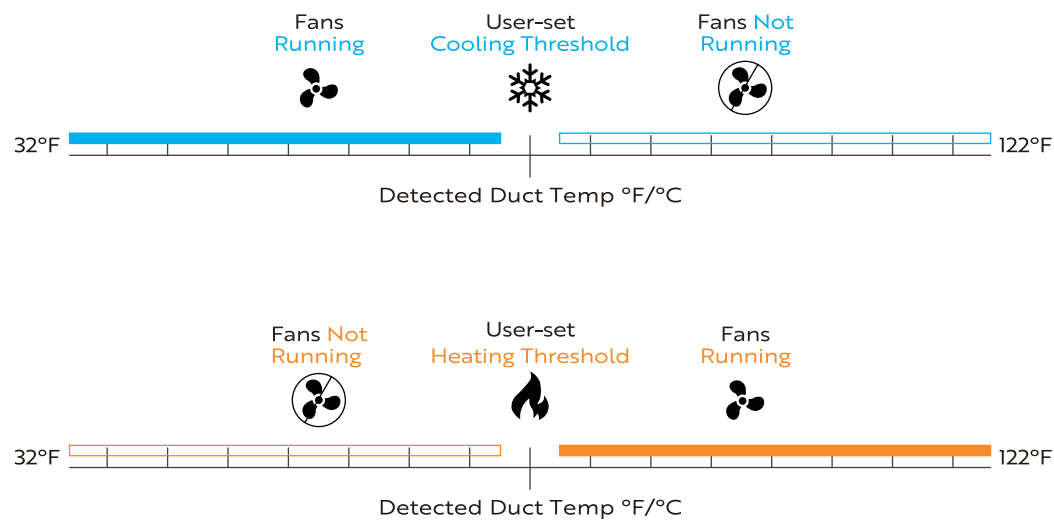
Note: The built-in temp sensor needs 5–10 mins to stabilize and show the actual temp after power-on.

Working Principle:

The built-in sensor monitors the duct air temperature in real time. Users can set separate temperature thresholds for both cooling and heating modes:

1. In Cooling Mode, when the duct temperature **falls below the preset cooling threshold**, the fan automatically turns on.
2. In Heating Mode, when the duct temperature **rises above the preset heating threshold**, the fan automatically turns on.

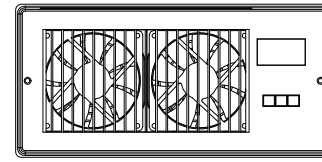
Once the duct air temperature no longer meets the selected condition, the fan will automatically turn off.



What's in the Box



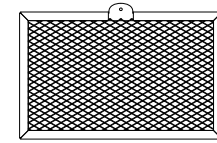
Model: VH1850



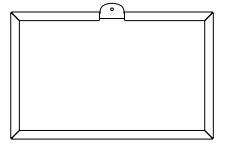
Register Booster Fan
× 1



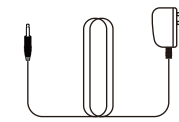
Remote Control
(Battery Not Included) × 1



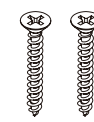
Protective Mesh
Screen × 1



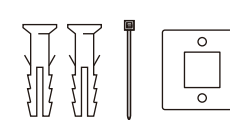
Register
Blocker × 1



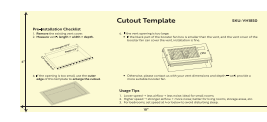
Adapter
× 1



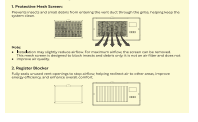
Screw
× 2



Power Cord Clip
× 1



Cutout Template
× 1



Quick Tip Card
× 1

Installation Guide

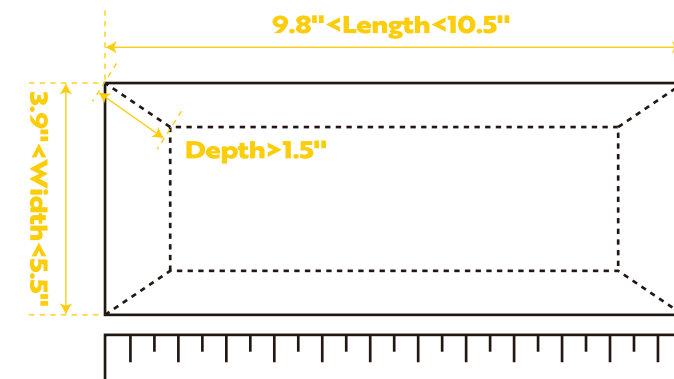


Step 1: Check Vent Opening Size

Remove the existing vent register cover. Measure the **inside length, width, and depth** of the vent opening.

You may also insert the included cutout template to quickly check compatibility.

Recommended vent opening size as follows:

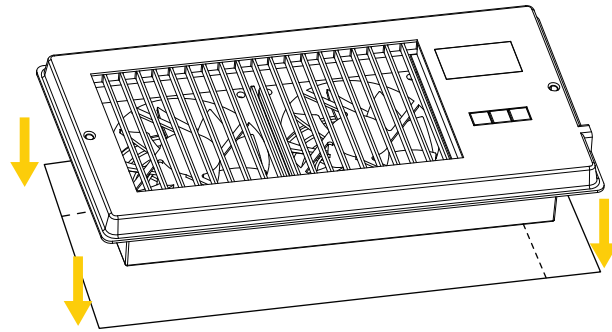


Notes:

- a. If the opening is slightly smaller than the required housing size (3.9"x9.8"), use the cutout template to carefully enlarge it.
- b. If the opening is larger than the front panel size (5.5"x10.5"), please contact customer support for a better-fitting model.

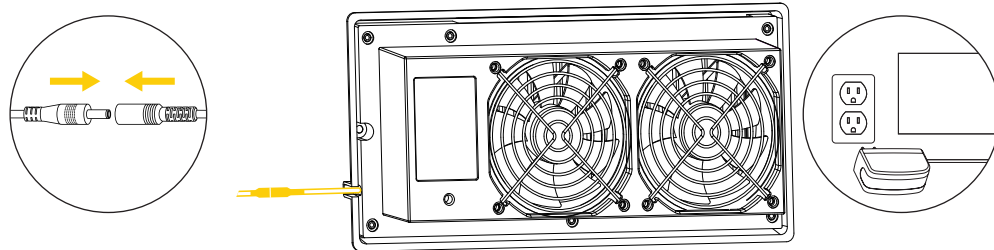
Step 2: Insert the Booster Fan

Insert the booster fan into the vent opening and make sure it sits flat and aligned.



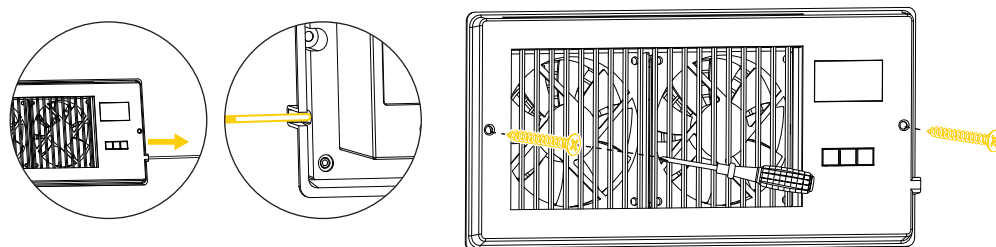
Step 3: Power On and Test

Connect the terminal to the adapter, then plug the fan into a power outlet. Install **2 AAA batteries** in the remote control first. Then press any button on the remote to test its operation.

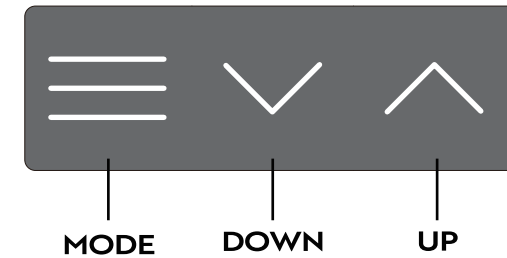


Step 4: Secure the Fan

Use the included screws to secure the fan in place. Route and arrange the power cord neatly to avoid obstruction.



**SECTION D
Panel & Remote Control**



Control Panel Button Descriptions

Button	Operation	Function	Feedback / Notes
	Short Press	Switches display pages in sequence: Real-time Temperature → Cooling Mode → Heating Mode → Fan Speed → Sleep Mode	Cycles through pages in sequence
	Long Press	Child Lock ON/OFF	3 beeps: Locked(LC) 1 beep: Unlocked(UL)
	Short Press	Decreases set temperature or fan speed	
	Long Press	Buzzer ON / OFF	3 beeps: Buzzer OFF 1 beep: Buzzer ON
	Short Press	Increases set temperature or fan speed	
	Short Press	Switches temperature unit	Toggles between °F/°C (temperature display pages only)
	Short Press (together)		

Remote Control Notice


The included remote control is **factory pre-paired** and ready for use **out of the box**.

No batteries are included. Please install **2 AAA batteries** before use.

Pairing Instructions:

If the remote control is lost, please contact customer service for a replacement.

Replacement remotes **must be manually paired** before use.

Within **30 seconds** after powering on the register fan, press and hold the POWER button  on the remote control for **at least 5 seconds**.

The register fan will emit three beeps (**"Beep-Beep-Beep"**), indicating successful pairing.

Child Lock Display:

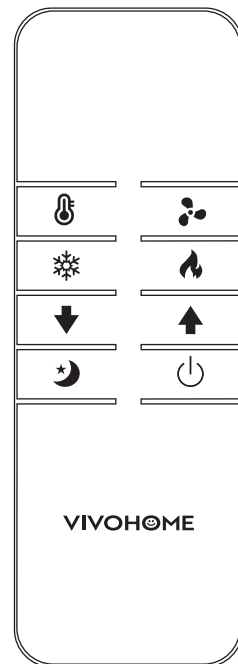
● Locked — Display shows LC

















● Unlocked — Display shows UL



Remote Control



Remote Control Button Descriptions

Button	Operation	Function	Feedback / Notes
	Short Press	Display real-time temperature	Temperature shown on display
	Long Press	Child Lock ON / OFF	3 beeps: Locked (LC) 1 beep: Unlocked (UL)
	Short Press	Display current fan speed level	Speed level shown
	Long Press	Set fan speed to 0 (Fan off)	Speed level shown
	Short Press	Enter Cooling Mode	Cooling icon / display active
	Long Press	Turn off Cooling Mode	Cooling icon / OF
	Short Press	Enter Heating Mode	Heating icon / display active
	Long Press	Turn off Heating Mode	Heating icon / OF
	Short Press	Decrease set value (temperature or speed)	Value decreases
	Long Press	Buzzer ON / OFF	3 beeps: Buzzer OFF 1 beep: Buzzer ON
	Short Press	Increase set value (temperature or speed)	Value increases
	Short Press	Activate Sleep Mode	Other modes exit automatically
	Short Press	Power ON / OFF	Fan turns on/off
	Long Press	Remote control pairing	Pairing mode activated

Mode Configuration



Cooling Mode (Summer Mode)

In Cooling Mode, the booster fan turns on **only when the duct air temperature is below the set threshold** to boost cool air flow. If the condition is not met, the fan automatically turns off.

Step 1:

Turn On AC

Turn on your air conditioning system and set a comfortable temperature.

Step 2:

Check Duct Temperature

Let cool air reach the vent, then view the real-time duct temperature on the display. (e.g.)

Step 3:

Enter Cooling Mode

Press MODE on the fan or the Cooling Mode button on the Remote Control. Enter the Cooling Mode settings page. (e.g.)

Step 4:

Set Threshold Temperature

Press DOWN / UP or / on the Remote Control to set a threshold temperature higher than the current duct air temperature.

Step 5:

Set Fan Speed

Press MODE or the Fan Speed button to select your preferred speed. (e.g.)

Step 6:

Cooling Mode Active

Press Mode or , return to the Cooling Mode screen and stay on this page (e.g.)

Cooling Mode is now active.

Heating Mode (Winter Mode)

In Heating Mode, the booster fan turns on **only when the duct air temperature is above the set threshold** to boost warm air flow. If the condition is not met, the fan automatically turns off.

Step 1:

Turn On Heater

Turn on your heating system and set your usual temperature.

Step 2:

Check Duct Temperature

Let warm air reach the vent, then check the real-time duct temperature on the display. (e.g.)

Step 3:

Enter Heating Mode

Press MODE on the fan or the Heating Mode button on the Remote Control. Enter the Heating Mode settings page. (e.g.)

Step 4:

Set Threshold Temperature

Press DOWN / UP or / on the Remote Control to set a threshold temperature lower than the current duct air temperature.




Step 5:

Set Fan Speed

Press MODE or the Fan Speed button to choose your preferred speed. (e.g.)

Step 6:

☑ Heating Mode Active



Press Mode  or , return to the Heating Mode screen and stay on this page (e.g. )

Heating Mode is now active.

Sleep Mode

☾ In Sleep Mode, the fan **runs continuously** at Speed Level 3, unaffected by ambient temperature.

Step 1:

Press the MODE button  on the fan, or short-press the SLEEP button  on the remote to activate Sleep Mode.

Step 2:

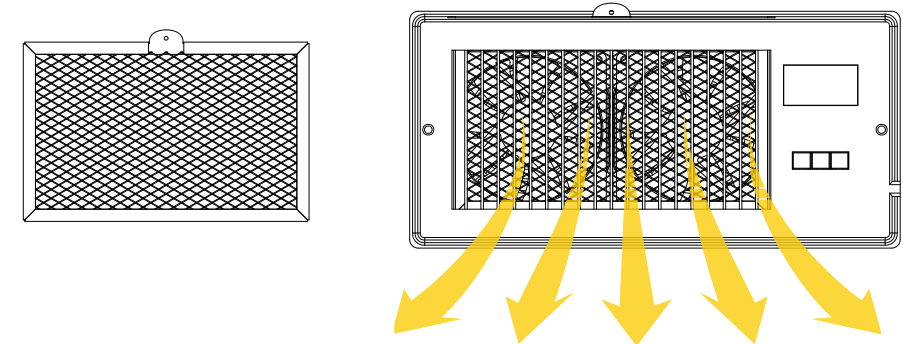
The Sleep Mode icon indicates that the mode is active. (e.g. )

Note: Press any other button to exit Sleep Mode.

Optional Accessories

a. Protective Mesh Screen

Prevents insects and small debris from entering the vent duct through the grille, helping keep the system clean.

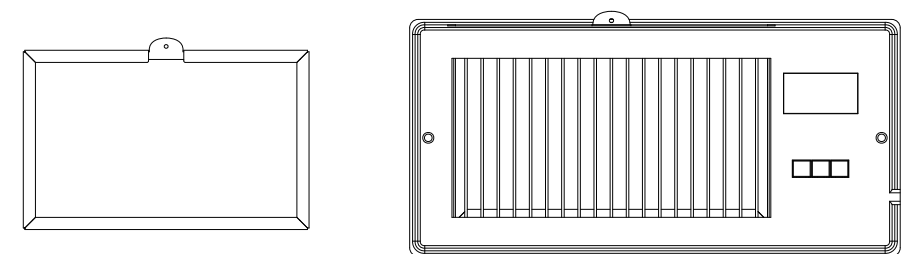


Note:

- Installation may slightly reduce airflow. For maximum airflow, the screen can be removed.
- This mesh screen is designed to block insects and debris only; it is not an air filter and does not improve air quality.

b. Register Blocker

Fully seals unused vent openings to stop airflow, helping redirect air to other areas, improve energy efficiency, and enhance overall comfort.





Q1 Why does the fan turn on or off by itself? Is it defective?

A1

- No. This is **normal operation in Cooling or Heating Mode**.
- In **Cooling Mode**, the fan turns on when the **duct temperature drops below the set threshold**.
- In **Heating Mode**, the fan turns on when the **duct temperature rises above the set threshold**.
- When the duct temperature moves outside the operating range, the fan turns off automatically.
- Once the temperature returns to the threshold range, the fan will start again.
- This automatic cycling is expected and indicates the fan is working properly.

Q2 Why does the displayed temperature look wrong compared to my thermostat?

A2

- Note: The built-in temp sensor needs 5–10 mins to stabilize and show the actual temp after power-on.
- The booster fan measures the **air temperature inside the duct**, not the room temperature.
- The temperature sensor is located on the **rear of the fan**, where airflow passes through the register.
- Because a home thermostat measures **room air**, the two readings may differ. This is normal.

Q3 My fan keeps running even when I don't want it to. How can I stop it?

A3

- The fan may be operating in **Fan Only Mode**, or the duct temperature may currently meet the Heating or Cooling threshold conditions.
- To stop the fan immediately, press the **POWER button** on the remote control to turn the fan off.

Q4 The booster fan is louder than I expected. How can I reduce the noise?

A4

- Fan noise increases with higher fan speed.
- To reduce noise, lower the fan speed.
- For quiet operation, especially during sleep, we recommend **Speed Level 2**.

Q5 The booster fan does not fit my vent opening. What should I do?

A5

- If the vent opening is **slightly smaller than the black rear housing**, use the **included cardboard cutout template** to carefully enlarge the opening.
- If the vent opening is **larger than the white front panel**, please measure **the length, width, and depth** of your vent opening and contact customer service for a suitable size recommendation.



The VIVOHOME warranty program is our commitment to you. We are committed to providing you with a high-quality product that meets your needs and expectations. To demonstrate our confidence in the durability and performance of our products, we offer the following warranty.

WARRANTY COVERAGE

This warranty applies to all orders, purchases, or use of products sold only by VIVOHOME and is valid for 1 year from the purchase date. Please note, this warranty only covers the original order. If a replacement is provided within the warranty period, it does not extend the warranty.

WARRANTY EXCLUSIONS

This warranty does not cover damages caused by misuse, accidents, unauthorized modifications, or any factors unrelated to product manufacturing and design, including but not limited to:

- Loss of parts during use.
- Normal wear and tear of products or parts.
- Incorrect installation (e.g., using the wrong voltage) or improper assembly.
- Overloading the product's bearing capacity.
- Usage in extremely harsh conditions.
- Improper cleaning or lack of maintenance.
- Damage resulting from unintended use of the product.
- Damage resulting from unauthorized modifications or service.
- Indirect losses or damages related to the product.



HOW TO MAKE A WARRANTY CLAIM

If you encounter any defects affecting the product's functionality or if the product fails and cannot be repaired during the warranty period, please reach out to our customer service team via email, or our app's messaging service at your earliest convenience. To expedite your claim, kindly include:

- Order number
- Photos and/or videos illustrating the issue
- A detailed description of the problem

VIVOHOME will provide technical support, replacement, refund, or other solutions based on the issue's specifics. If you wish to return the original package for any reason, please contact us for confirmation before initiating the return. You can expect a response within 48 hours.

Thank you for choosing VIVOHOME. We are dedicated to ensuring your satisfaction and the quality of your purchase. If you have any questions or need further assistance, please don't hesitate to reach out to our customer service team.