

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.

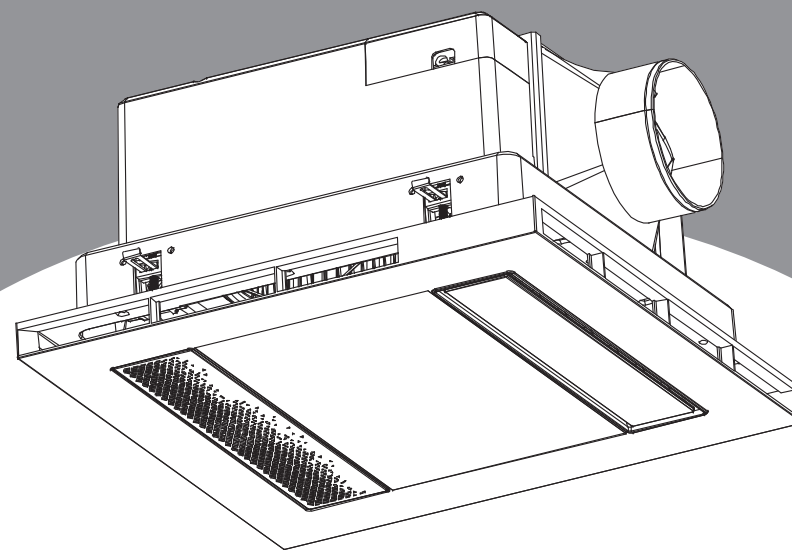
Made in China



VIVOHOME

HOW-TO

USER MANUAL 



High CFM Bathroom Exhaust Fan with Heater & RGB Mood Lighting



Assembly is EASY!

**WE WANT
YOU TO
ENJOY LIFE
AT HOME**

GO TO THE PRODUCT LISTING PAGE
FOR AN INSTRUCTIONAL VIDEO!



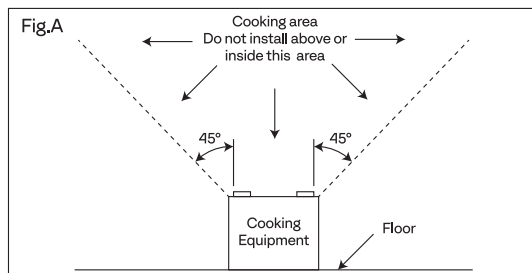
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Safety Information

Please read all instructions before installation and use.

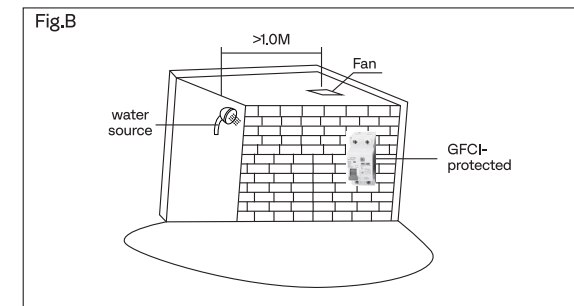
1. Ensure the power supply is **110-120 V, 60 Hz**.
2. Do not install in areas where temperatures exceed 113°F(45°C).
3. Do not bend or damage the power cord.
4. Follow all local building and electrical codes, including NEC and OSHA regulations.
5. Disconnect power at the circuit breaker before servicing.
6. Protect all wiring from sharp edges, oil, grease, and heat sources.
7. Do not install where airflow is restricted.
8. Ensure adequate air intake for proper ventilation.
9. Do not use to ventilate hazardous or explosive materials.
10. Do not operate the fan with other solid-state speed controls.
11. Do not install in cooking areas (see Fig. A).
12. This unit must be grounded.



13. Exhaust air must be vented outdoors — not into wall cavities, ceilings, attics, or garages.
14. Install the fan at least 7 feet (2.1 meters) above the floor.

WARNING: To reduce the risk of fire or electric shock, follow all safety precautions and do not install the fan in prohibited zones.

15. Use only as intended by the manufacturer. Contact customer service with questions.
16. Installation must be performed by a qualified professional, following all local safety codes and fire-rated construction rules. Our products are designed to allow customers to install them under the supervision of a professional.
17. Ensure proper airflow and venting for gas-burning appliances to prevent backdrafting. Follow NFPA and ASHRAE guidelines.
18. Do not install in ceilings with insulation values greater than R40.
19. Avoid damaging hidden utilities or wiring during installation.
20. For over-shower or bathtub installation, ensure the product is rated for that use and installed at least 3.3 ft (1 meter) from the water source (see Fig. B). The fan should be installed on the opposite side of the tub on the ceiling. It is acceptable for use over a bathtub or shower when connected to a GFCI-protected branch circuit (refer to Fig. B).



21. Do not connect to rigid metal conduit; use flexible conduit only.
22. Keep ductwork straight and minimize bends.
23. Ductwork size must be no smaller than the discharge opening and should not be reduced.

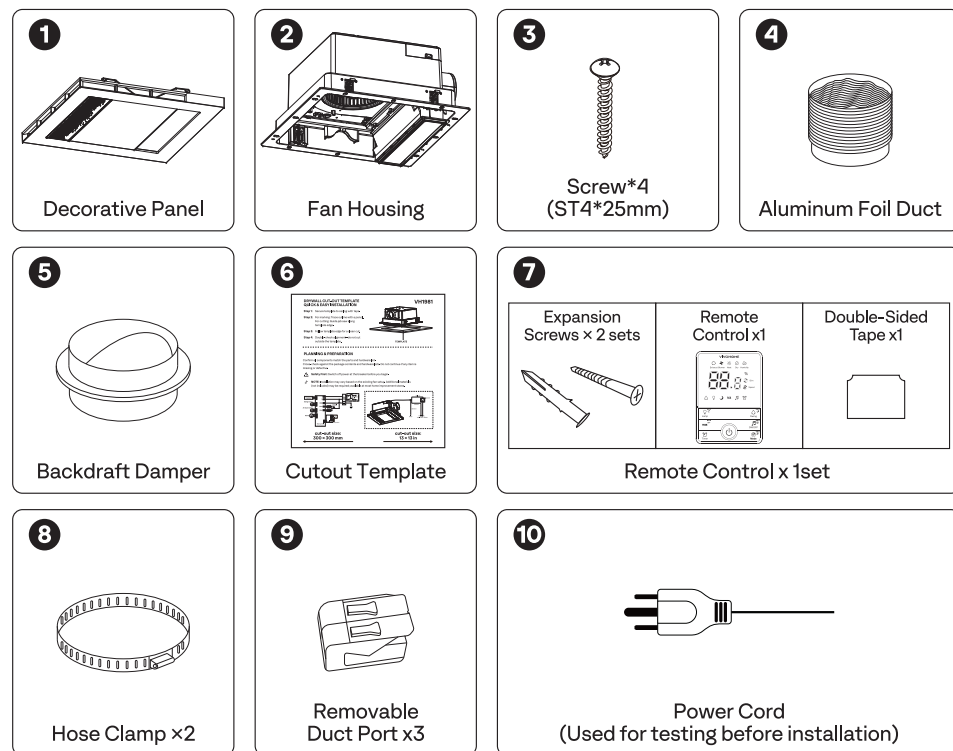


What's in the Box

Before beginning installation, verify that all parts are included.

Check each item against the package contents.

If any part is missing or damaged, **DO NOT** proceed with installation and contact the Vivohome Customer Service for assistance.

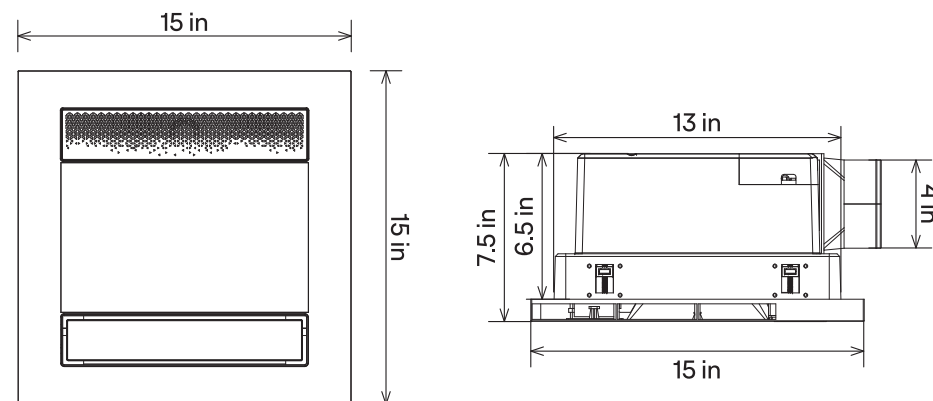


Product Introduction

This ceiling-mounted exhaust fan is designed to improve indoor air quality by exhausting humidity, odors and stale air from enclosed spaces.

Its durable motor ensures **quiet, high-efficiency airflow**.

Ideal for **residential and light commercial applications, including bathrooms, offices, and hotels.**



Specification	Parameter
SKU	VH1981
Heater Power	1580-1730 W
Fan Power	23 W
Max Airflow	200 CFM
LED Light	13.5 W
Voltage	110-120 V
Frequency	50-60 Hz
Sound Level	0.1-1.5 sones

Airflow Parameters

Mode	Speed Level / Condition	Airflow (CFM)
Blower Fan	F1	80
	F2	110
	F3	140
	F4	160
	F5	200
Exhaust Fan	F1	100
	F2	160
	F3	200
Humidity Sensor Mode	≤ 50%	OFF
	50% - 80%	160
	> 80%	200

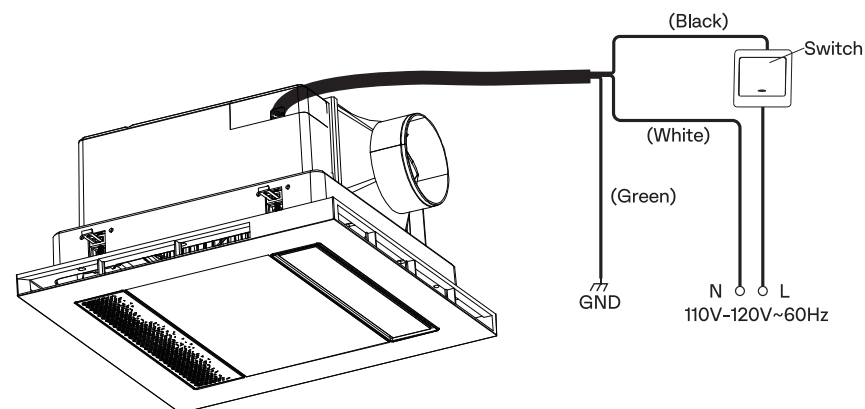
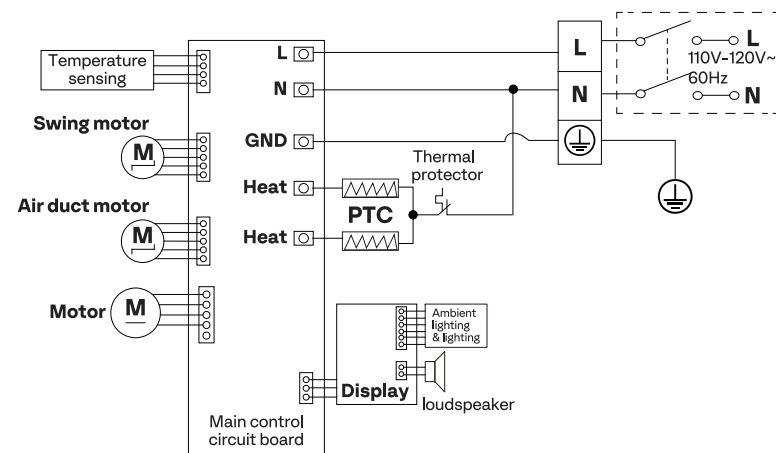
Lighting Parameters

Mode	Warm Light	Neutral Light	Cool White
Brightness	1500 lm, 100%	1500 lm, 100%	1500 lm, 100%
Color Temp.	2700 K	4000 K	5700 K
5 Brightness Level	20% - 40% - 60% - 80% - 100%		

Section D



Wiring Diagram



Planning Installation



WARNING

- Turn off power at the breaker box before beginning any installation work.



NOTES

- Some installation tools may not be included. Additional supplies can be found at your local hardware store.
- Carefully remove the unit from the packaging and verify that all components are included.
- Check that the motor operates normally by briefly testing the power before installation.



BEFORE YOU START

- Confirm that the area above the installation location provides enough space for wiring, ductwork, and proper ventilation.
- Inspect existing ductwork and wiring to ensure they are in good condition before proceeding.
- Choose an installation location that will allow easy access for future maintenance or inspections—without removing the entire fan.



After receiving the product, verify all accessories are included and briefly test the power to ensure the motor operates normally. Do not proceed with installation until all checks are complete.

Tools Required (Not Included)



Claw Hammer



Drill Bits



Flathead Screwdriver



Duct Tape



Pliers



Philips Head Screwdriver



Utility Knife



Electric Drill



Goggles



Gloves

Section E



Installation Guide

Step 1: Prepare the Ceiling

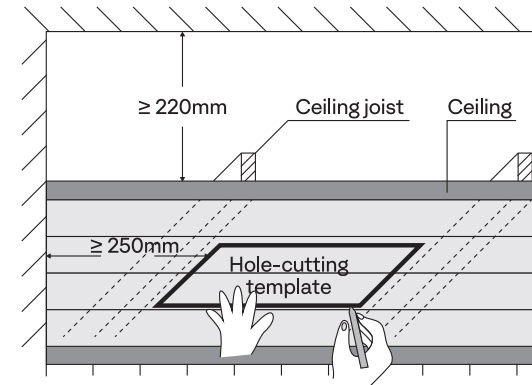
Cut around the included hole-cutting template and use this template to mark the hole outline on the ceiling.

Note:

For new installation, the recommended hole size is 13 × 13 in

For retrofit, the product fits a hole up to 15 x 15 in

Ensure that the distance between the edge of the opening and the wall is at least 250 mm. Ensure a minimum vertical clearance of 220 mm between the rooftop and the ceiling.

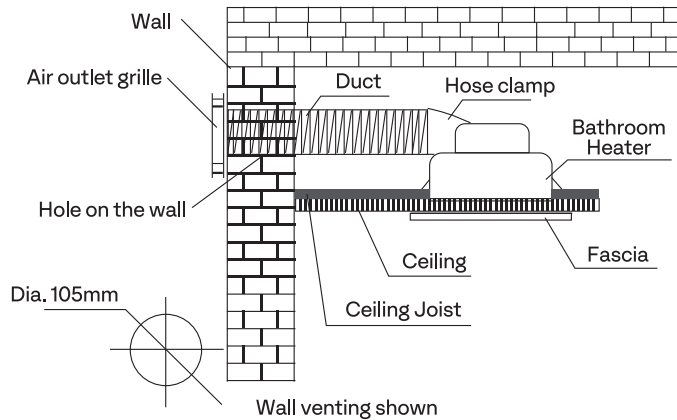


Step 2: Ducting and Air Outlet Grille

Connect one end of the 100mm-diameter vent duct to the air-outlet grille with hose clamps, and route the other end through the vent opening. Seal gaps around the opening with suitable sealant, and install a weatherproof cowling if required. Secure the air-outlet grille to the exterior wall.

Note:

1. Since the length of each duct is 1.5 m, make sure that from the centre of installation position there should be a distance within 1.5 m to the outside vent.
2. Ensure ventilation ducts are properly installed to prevent the backflow of combustion gases from open-flue gas appliances or other fuel-burning devices.

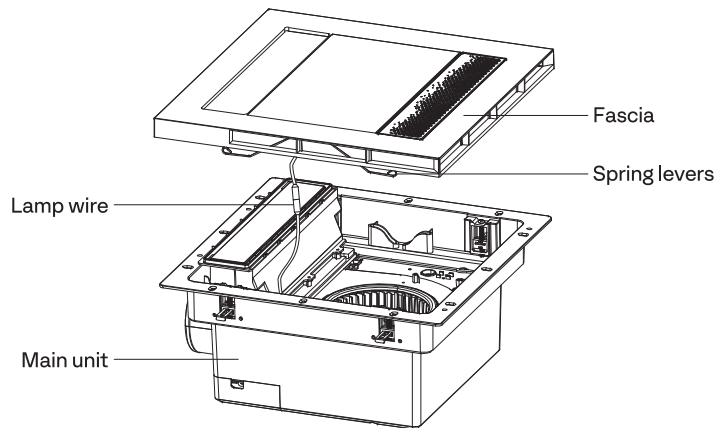


Step 3: Locating the Heater

For the purpose of obtaining best heating effect, from the lamps there should be a distance of about a 7 ft / 2.1 m overall height to ground.

Step 4: Remove the Fascia

Remove fascia from the main unit with care by pressing the four spring levers attached to rear of fascia.



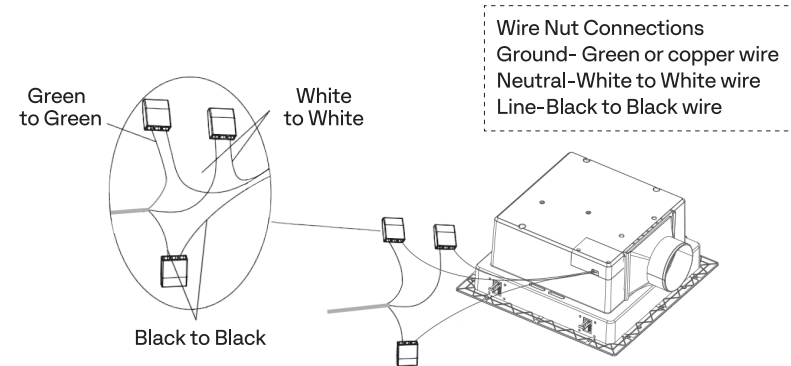
Step 5: Connect Electrical Wiring

Connect 110-120 V AC wiring using wire connectors.

Follow wiring diagram instructions.

CAUTION:

Verify the wiring functions if colors differ. Consult a professional if needed.



Step 6: Connect the Duct

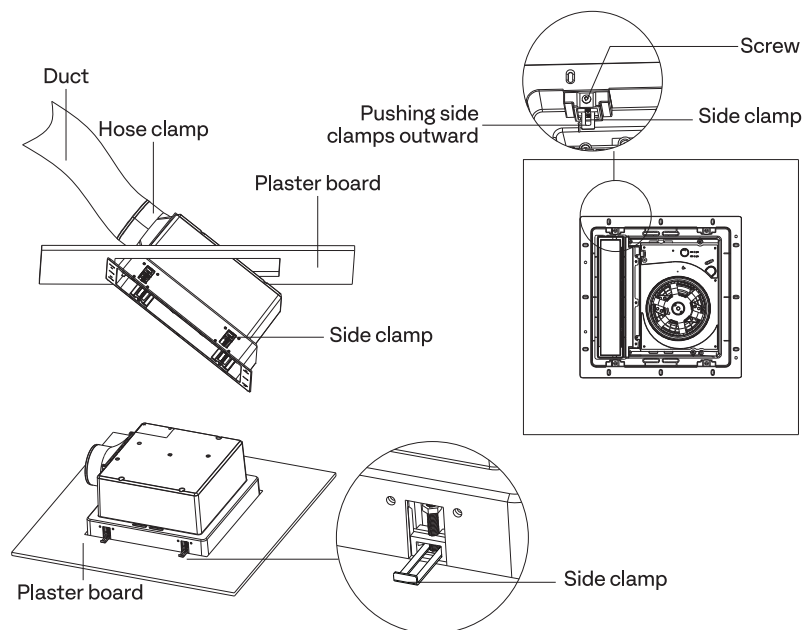
Fit the duct to the ventilation outlet and secure it with the provided hose clamps. Tighten the hose clamps firmly to prevent the duct from coming loose during operation.

Step 7: Insert the Housing into the Opening (For New Installation)

Choose the best orientation for the housing based on the position of the fan outlet. Pull the side clamps inward so that the housing can pass through the opening without damaging the drywall.

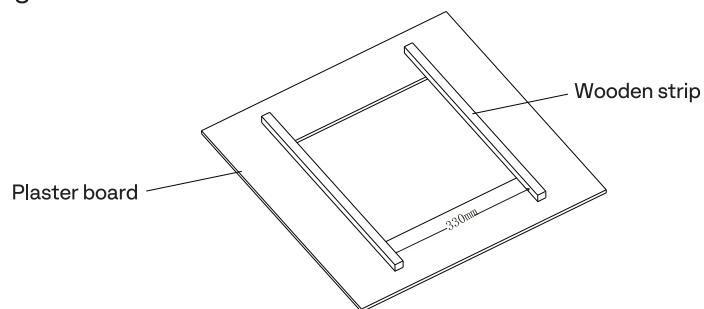
Secure the housing by pushing the side clamps outward, then tighten the screws until the housing sits flush against the ceiling.

Note: Keep any excess wiring clear of the housing.



■ Step 7: Position the Housing into the Hole (For Retrofit)

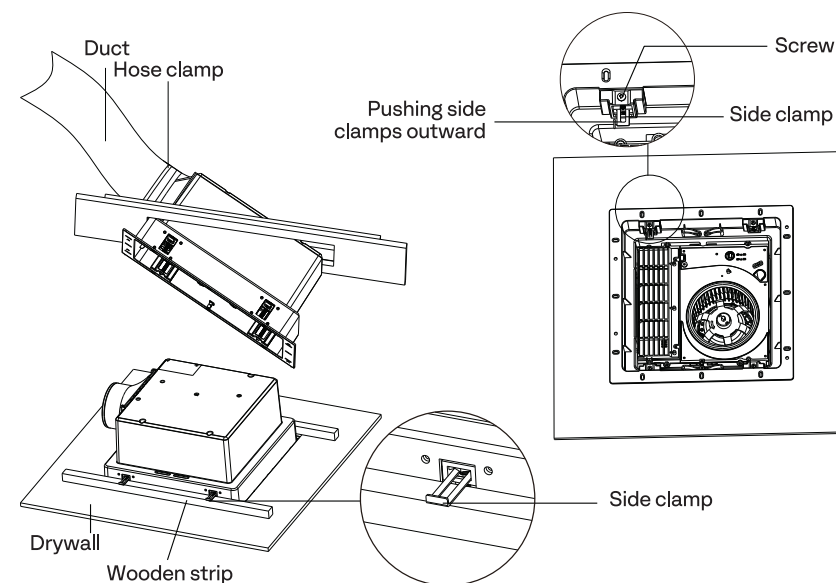
1. If there is already a pre-cut opening in the ceiling, ensure that the maximum size of the square opening does not exceed 15 x 15 in (380 x 380 mm). When the hole size is ≥ 335 mm and ≤ 380 mm, it is recommended to install wooden strips for installation.
2. Prepare two wooden strips with sufficient strength, each 20 mm wide and 400 mm long. Insert the strips into the ceiling opening. Make sure the distance between the two wooden strips is 330 mm, and the edge distance of the wooden strips from the edge of the hole should be as consistent as possible. Secure each strip firmly to the ceiling with nails or screws.



3. Based on the position of the fan outlet, select the optimal direction of the housing inlet. Make sure side clamps are pulled inwards so that the rest of housing can pass through the hole without damaging drywall.

Ensure the unit is held securely in place by the pushing side clamps outwards and tighten the screws until main unit rests flush to the wooden strips.

Note: Try to keep the redundant wire away from the housing.

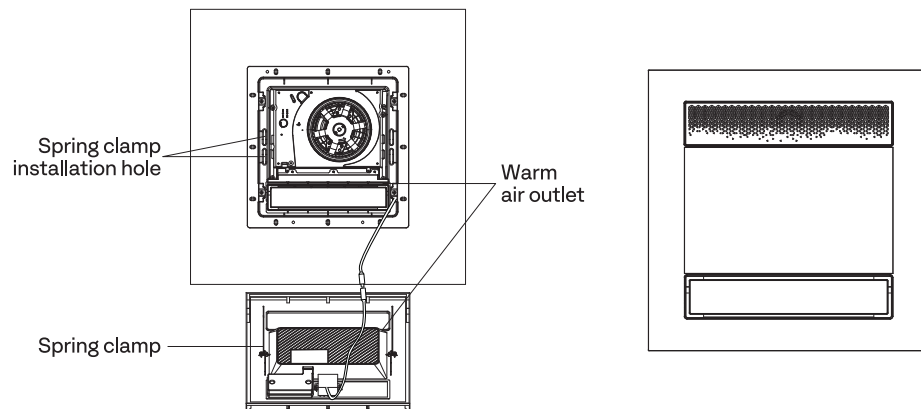


■ Step 8: Install the Panel

Connect the panel's LED and speaker connectors to the corresponding output connectors on the main unit. Compress the two springs on the panel and insert them into the spring slots on the housing. Align the panel with the housing before pushing it into place. Ensure no wiring is pinched by other components. Secure the panel firmly to the housing.

Before first use, run the heater and fan for at least 5 minutes to eliminate any residual odors.

WARNING: The warm-air outlet must align with the special heat-resistant grille.



Note:

1. The switch wiring should be mounted inside the wall to give the switch an integrated built in appearance. If it is necessary to run the wiring on the outside of the wall, use a suitable conduit and fixings to properly locate and hold the wiring used.
2. For the exhaust fan to work efficiently, replacement air of a volume equivalent to what is being extracted must be able to enter the room. In general this air would be drawn from under the door, or through a slightly opened window. If the room is air-tight, the fan will function poorly.
3. Align the panel with main unit before pushing it in. Make sure the LED panel connector and cable are not pressed by other components. Place the entire panel securely with main unit.
4. Before first use, turn on heater and fan for at least 5 minutes to eliminate any lingering odour.

Section F



Exhaust Fan Operation

1. Turning the Fan On

Flip the wall switch to the **ON** position to activate the fan.



2. Turning the Fan Off

Flip the wall switch to the **OFF** position to turn the fan off.



NOTES

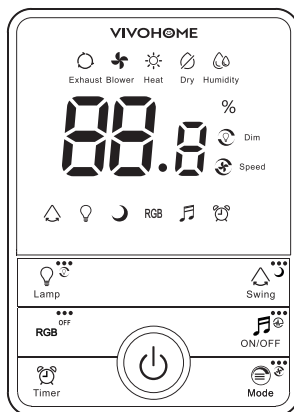
The humidity sensor is **not manually adjustable**. The fan will automatically regulate its airflow based on the surrounding humidity level.

Holding a tissue near the grille is **not a reliable test** of airflow.

If the fan clears steam within approximately **15 minutes after a shower**, it is operating correctly.



Remote Control Operation



Re-Pair the Remote

Although every unit is paired before shipment, pairing may occasionally be lost during transportation.

To re-pair:

- Unplug and reconnect the unit power(a long beep)
- Within 30 seconds of powering on, point the remote at the unit
- Press the Power button 5 seconds
- You will hear a confirming long beep when pairing is successful.
- If pairing fails, please repeat the process.

Choose an Operating Mode

Power-Off (Standby)

Press to turn the unit off (Standby). Note: This button is for power-off only; to power on and activate a function, simply press any corresponding function button (e.g., Light, Exhaust).



Mode Button

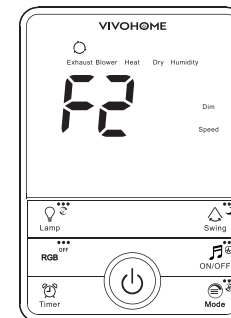
Press to cycle through the following functions: Exhaust → Blower → Heat → Dry-Humidity.

Tip: If you stop at any function and turn off the unit using the wall switch, the system will automatically resume the last selected function when turned back on — no need to cycle through again.

Exhaust

Exhaust Fan: Manual ventilation mode with adjustable fan speeds from F1 to F3.

The remote control's onboard display shows the current fan speed level in this mode.

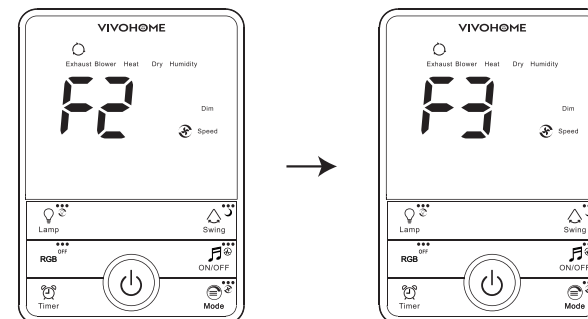


Fan Speed Adjustment

Enter Speed Mode: Press and hold the Mode button for 3 seconds. The Speed icon will light up, and F2 will flash on the main screen.

Adjust Speed: Short press the Mode button repeatedly to cycle through speed settings.

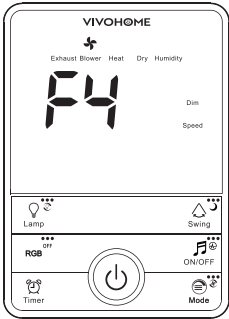
Auto-Save & Exit: After 5 seconds of inactivity, the Speed icon will turn off, and the screen will display the current speed level. After another 5 seconds, the remote screen will turn off.



Tip: After adjusting the speed level, the main unit saves this setting. If you turn off the fan or switch to another mode, this speed level will be restored when switching back to Exhaust mode.

 Blower

Fan Mode features 5 speed levels: F1–F5.

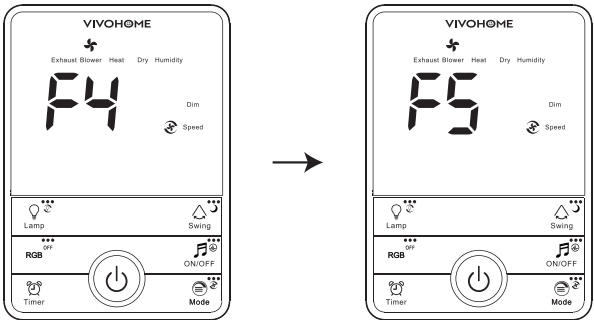


Fan Speed Adjustment

Enter Speed Mode: Press and hold the Mode button for 3 seconds. The Speed icon will light up, and F2 will flash on the main screen.

Cycle Speeds: Short-press the Mode button to cycle through speed settings.

Auto-Save & Timeout: After 5 seconds of inactivity, the Speed icon will turn off, and the screen will display the current speed level. After another 5 seconds, the remote control display will turn off (enter sleep mode).



Tip: After adjusting the speed level, the main unit memorizes this setting. If you turn off the fan or switch to other modes, this speed level will be restored when returning to Blower Mode.

 Heat

Mode	Bathroom Temperature Condition	Smart Adjustment Result
Heat	$> T + 3^{\circ}\text{C} \rightarrow$ Level 3 (110 CFM), PTC II (Low Heat) ON	Low airflow, low heating, gentle warming
	$T < \text{temp} \leq T + 3^{\circ}\text{C} \rightarrow$ Level 4 (140 CFM), PTC I (High Heat) ON	Medium airflow, high heating, steady temperature rise
	$T - 3^{\circ}\text{C} \leq \text{temp} \leq T \rightarrow$ Level 4 (140 CFM), PTC I + PTC II (High + Low Heat) ON	Medium airflow, combined low & high heating, rapid warming
	$< T - 3^{\circ}\text{C} \rightarrow$ Level 5 (160 CFM), PTC I + PTC II (High + Low Heat) ON	High airflow, maximum heating, rapid temperature rise

(T = set temperature)

Tip: Switching from Smart Heating Mode to other modes has a 20-second delay. You can continue pressing the Mode button to switch without waiting for the full 20 seconds — the unit will transition automatically after 20 seconds.

 Dry

Louvers open. Heating runs for 25 minutes. The fan then switches to exhaust mode (after a 20-second delay) and runs for 5 minutes. Cycle repeats 2 times, then turns OFF automatically.

Tip: Switching from Dry mode to other modes has a 20-second delay. You can continue pressing the Mode button to switch without waiting for the full 20 seconds — the unit will transition automatically after 20 seconds.

 Humidity

Humidity: Automatic ventilation mode with auto-adjusted airflow; manual speed adjustment is unavailable.

- Humidity $\leq 50\%$: Unit stays OFF
- $50\% < \text{Humidity} \leq 80\%$: Airflow at 160 CFM
- Humidity $> 80\%$: Airflow at 200 CFM

Manual speed control function is disabled in this mode.



Lamp: 2700 K → 4000 K → 5700 K (then repeats).

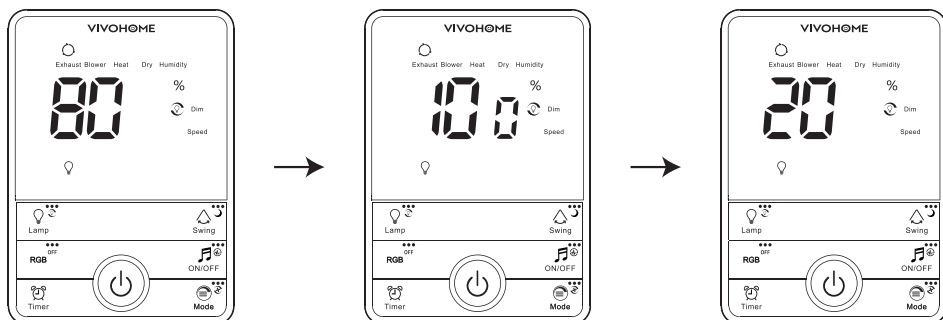
Press once: Turn on the light

Press again: Turn off the light.

Press repeatedly: Cycle through color temperatures in the following order

Brightness Adjustment:

Enter Brightness Mode: Press and hold the Lamp button. The DIM icon and the percentage sign (%) will light up, and the main screen will display the current brightness level (default is 80%). Adjust Brightness: Short press the Lamp button repeatedly to adjust the brightness level (20%-40%-60%-80%-100%)



Short press to enable RGB mode. The RGB icon on the screen will light up. This function features a memory mode. When the RGB light is turned off, it will automatically resume its last used mode upon the next power-on.

Short-press RGB to cycle through the following RGB light modes:

Mode 1: Aurora Mode: Colors change and cycle automatically.

Mode 2: Flow Mode: The seven colors shift and transition from left to right.

Mode 3: Mono Mode: Press the button once to cycle through solid colors in sequence: Red → Orange → Yellow → Green → Cyan → Blue → Violet.

Turn Off: Press and hold the button for 3 seconds to turn off the RGB function.

Music Sync: The RGB light will not sync to music unless the Bluetooth speaker is enabled.



Timer

Select **30/60/90 Min** to activate the timer immediately.

Pressing the **same timer button again** resets the countdown to the full selected duration.

Example: If 30Min has been running for 6Min, pressing 30Min again restarts the timer from 30Min.

Adjusting fan speed does not cancel the active timer.

Press Power-Off (⏻) to cancel the timer immediately.

Press and hold the Timer key for 3 seconds to cancel the timer.



Bluetooth & Music Sync Power Control

Press once to turn on the Bluetooth speaker. The unit will emit a beep.

Open your phone's Bluetooth settings and search for the device to pair. When pairing is successful, a beep will sound.

If pairing fails, press once to turn off the Bluetooth speaker, then restart Bluetooth and try pairing again.

Default operation: Short press once to turn on; short press once to turn off.

When the Bluetooth speaker is turned on, the RGB light syncs with the music by default. Press and hold for 3 seconds to cancel RGB music sync. Press and hold again to restore it.



Swing / Night Light Mode

- Press to activate louver swing. Press again to stop the louver at the current angle.
- The louver setting is memorized. If swing mode is active, it remains enabled on next startup. If stopped at a fixed angle, the louver resets to 90° when powered on again.
- The swing setting on the remote is global. When swing is enabled, it will turn on automatically for Fan, Heating, and Dry modes, and the swing indicator lights up.
- Press and hold for 3 seconds to turn on the night light; press and hold for another 3 seconds to turn it off.

Night Light Spec: 2700K, 10% brightness

The night light icon on the remote synchronizes with the light status.

■ Factory Reset

Long press the standby and lamp buttons to restore factory settings.

1. Louver defaults to stationary (no swing), with a default angle of 90° upon activation.
2. After reset, RGB will start with color cycle mode when turned on.
3. Light brightness restores to default 80%, color temperature: 4000K.
4. All speed levels revert to factory default values.
5. The unit powers off automatically once the factory reset is completed.

■ Caution:

1. The temperature of the heater is high. It must not be placed close to curtains or other flammable materials, and it is strictly prohibited to cover it during use.
2. Please do not directly touch the air outlet of the air heater during operation
3. The heater must not be directly placed under the fixed socket, and can only be installed horizontally.
4. When using this product in the bathroom, the switch should be installed in a location where it cannot be touched by persons in the bathtub or shower area and is effectively protected from water splashing.
5. This product must not be installed in locations with water seepage.
6. If the internal wiring of the appliance is damaged, repair must be performed by the manufacturer, its maintenance department, or similarly qualified personnel to avoid danger.
7. In case of any abnormal condition during operation, turn off the power immediately and notify the local agent or authorized service center.
8. Do not install the product in locations with corrosive fumes or high temperatures.
9. Ensure that the fan is switched off from the mains supply before removing the guard.
10. The fan is to be installed so that the blades are more than 7 ft (2.1m) above the floor.
11. Precautions must be taken to avoid the backflow of gases into the room from the open flue of gas or other fuel-burning appliances.
12. The heater must be installed at least 7 ft (2.1m) above the floor.
13. The heater is to be installed so that switches and other controls cannot be touched by a person in the bath or shower.

14. Under no circumstances should the appliance be covered with insulating material or similar material.
15. National regulations concerning the discharge of air must be followed.
16. Joists, beams and rafters must not be cut or notched to install the appliance.
17. Exhaust fans may adversely affect the safe operation of gas or other fuel-burning appliances (including those in other rooms) due to backflow of combustion gases. These gases can potentially result in carbon monoxide poisoning. After installation of an exhaust fan (such as a partition fan or duct fan), the operation of open-flued gas appliances should be tested by a competent person to ensure that backflow of combustion gases does not occur.
18. The appliance must be installed by a licensed electrician.
19. The clearance between this heater and any adjacent recessed ceiling heater shall be no less than four times the rated minimum clearance between the heater and surrounding building components.
20. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction by a responsible person regarding the use of the appliance.
21. Children should be supervised to ensure that they do not play with the appliance.

Note: The heating and exhaust fan functions cannot operate simultaneously. Please ensure the heating function is turned off before activating the exhaust fan.

■ Cleaning & Maintenance

1. After the power is turned off and the appliance has cooled, wipe the outer surface with a clean cloth dampened with petroleum-free detergent or liquid glass cleaner.
2. Do not use alcohol-based cleaners, thinners, or liquids that are corrosive to plastic for cleaning.
3. Dry the product completely before reuse.
4. Cleaning is recommended once a month.



Troubleshooting

Problem	Possible Cause	Solution
The fan is louder than expected	Damper damaged or stuck	Check if the damper opens/closes smoothly; contact support if damaged.
	The duct is sharply bent near the fan's outlet	Avoid bending the duct until at least 18 inches away from the outlet
	The fan outlet is reduced to fit a smaller duct	Use a duct size that matches the fan outlet
	The fan housing is not securely mounted	Make sure the fan is firmly attached to the ceiling joists.
The fan is not clearing the room	Insufficient airflow intake	Keep a door or window slightly open to allow fresh air to enter the room.
The fan is not clearing the room	CFM is too low for the room size	Ensure the fan's CFM rating is appropriate for the room's square footage.
Bluetooth speaker not working	The speaker cable between the front panel and the fan was not properly connected	After powering off, remove the panel, reconnect the two necessary interfaces, and then reconnect Bluetooth.
	Your phone has been connected to multiple Bluetooth devices, which may cause the volume to become out of sync	You'll need to enable "Sync current device" above the Bluetooth icon

Problem	Possible Cause	Solution
I've connected via Bluetooth and turned on the music, but the colored lights aren't moving in sync with the music.	The current mode is set to not follow the music. The product is shipped with music sync enabled by default. It may have been accidentally changed to the non-sync mode.	Press and hold "  " for 3 seconds to enable music sync mode. Once enabled, the RGB light will sync with the Bluetooth speaker whenever it is turned on (memory function).
Why can't the colored lights be turned off by themselves?	If you want to switch the colored lights to CCT lighting	Pressing any of the CCT light buttons, including those for color temperature, brightness, and night light, will switch the colored lights off.
	Turn off the colored lights directly	Press and hold "  " for 3 seconds or more. A single beep will sound, and the RGB light will turn off immediately.



FAQ

1. I can't hear or feel the airflow from the fan. Is it working properly?

This exhaust fan operates very quietly and exhausts air outward, so you may not hear any sound or feel airflow by hand during normal operation.

- Hold a tissue near the exhaust vent (for reference only, not fully accurate).
- Switch the fan to manual mode for testing.
- In Quiet mode, if the fan reduces moisture within about 15 minutes, it is operating normally.

2. My previous fan opening is not 13 × 13 in (330 × 330 mm). Can this fan be installed?

This product fits an opening size of **13 × 13 in (330 × 330 mm)** and has a panel size of **15 × 15 in (380 × 380 mm)**.

If your opening is smaller than 13 × 13 in (330 × 330 mm):

You can enlarge it using the included template. As long as the opening is between **13 × 13 in (330 × 330 mm)** and **15 × 15 in (380 × 380 mm)**, the fan can be installed (wood strips can be used for reinforcement if needed).

If your opening is larger than 15 × 15 in (380 × 380 mm):

Installation is not recommended.

3. The remote control is not working. What should I do?

Try the following steps:

- Replace the batteries if they are dead.
- Re-pair the remote with the fan if it has lost connection.
- If the remote is still not working, contact us for a replacement.

4. The fan seems to spin in reverse when powered on, and I don't feel airflow. Is this normal?

Yes, this is normal.

This fan uses a DC motor, which may briefly spin in reverse for 1–2 seconds when it is first powered on. It will automatically switch to the correct direction. The initial reverse motion may appear more noticeable due to visual perception.

Also, since this is an exhaust fan, airflow is mainly felt at the exhaust vent—not near the fan blades.

Section J



Warranty

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.

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.