

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.

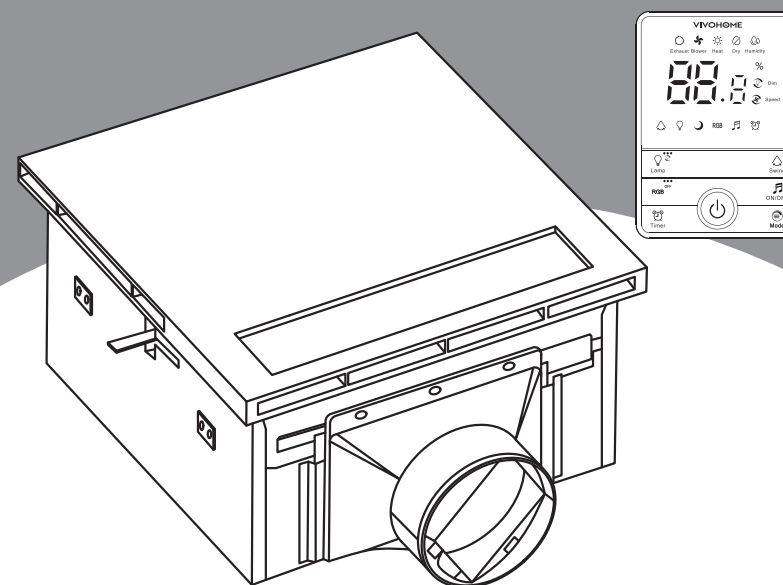
Made in China



VIVOHOME

# HOW-TO

## USER MANUAL



## 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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This unit must be connected to the main power supply by a licensed electrician.

Section A



Specifications

|             |                      |                                              |
|-------------|----------------------|----------------------------------------------|
| SKU         | VH1974               |                                              |
| Item        | Specification        | Parameter                                    |
| Heating     | Heater Power         | 1580–1730 W                                  |
| Fan Blower  | Fan Power            | 20 W                                         |
| Exhaust Fan | Airflow              | 80 / 110 / 160 CFM                           |
| Lighting    | LED Light            | 15 W                                         |
| General     | Product Dimensions   | 11.8 × 11.8 × 6.5 in<br>(300 × 300 × 165 mm) |
|             | Ceiling Opening Size | 10.8 × 10.8 in<br>(275 × 275 mm)             |
|             | Installation Depth   | 7.1 in (180 mm)                              |
|             | 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                      | 90            |
|                      | F3                      | 110           |
|                      | F4                      | 140           |
|                      | F5                      | 160           |
| Exhaust Fan          | F1                      | 80            |
|                      | F2                      | 110           |
|                      | F3                      | 160           |
| Humidity Sensor Mode | ≤ 50%                   | OFF           |
|                      | 50% – 80%               | 110           |
|                      | > 80%                   | 160           |

— Temperature Parameters

| Mode | Bathroom Temperature Condition                                                     | Smart Adjustment Result                                    |
|------|------------------------------------------------------------------------------------|------------------------------------------------------------|
| Heat | > T + 3°C → <b>Level 3 (110 CFM), PTC II (Low Heat) ON</b>                         | Low airflow, low heating, gentle warming                   |
|      | T < temp ≤ T + 3°C → <b>Level 4 (140 CFM), PTC I (High Heat) ON</b>                | Medium airflow, high heating, steady temperature rise      |
|      | T - 3°C ≤ temp ≤ T → <b>Level 4 (140 CFM), PTC I + PTC II (High + Low Heat) ON</b> | Medium airflow, combined low & high heating, rapid warming |
|      | < T - 3°C → <b>Level 5 (160 CFM), PTC I + PTC II (High + Low Heat) ON</b>          | High airflow, maximum heating, rapid temperature rise      |

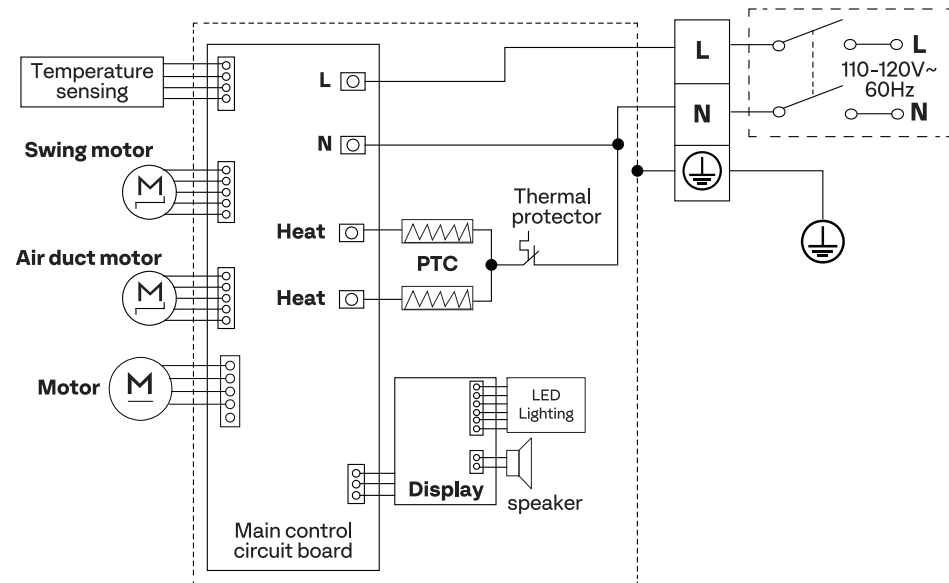
(T = set temperature)

## 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 B

# Wiring Diagram

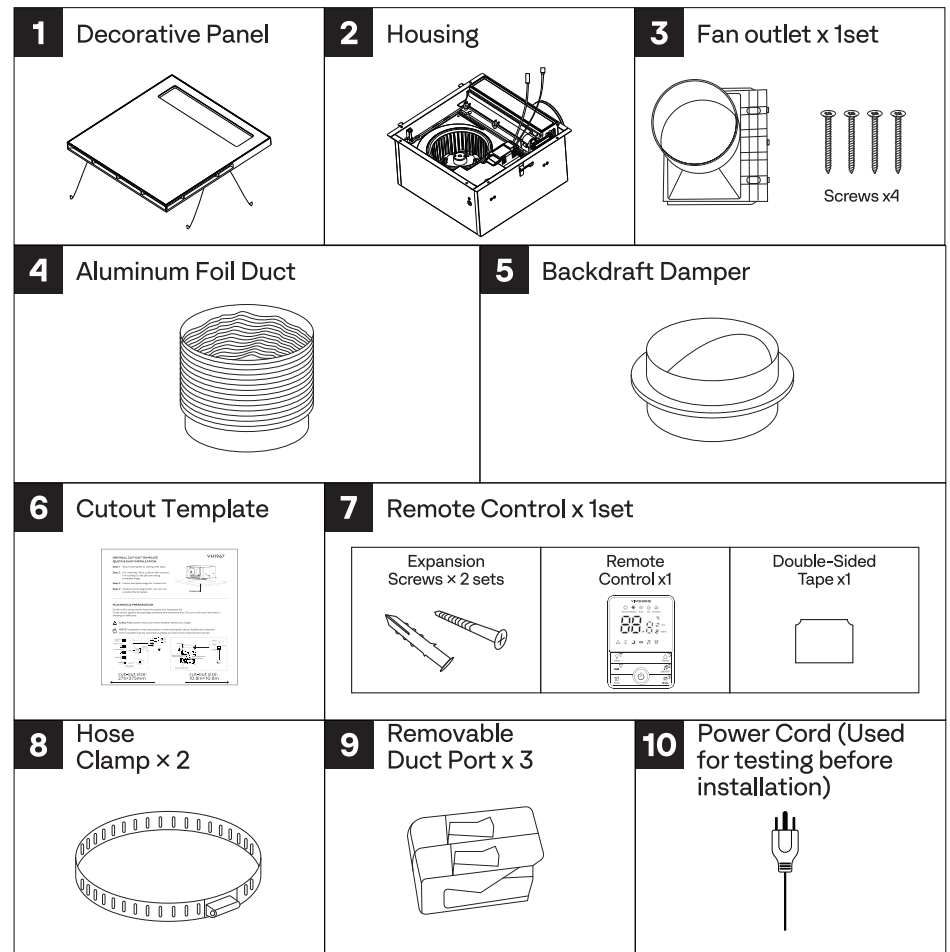


## Section C



# Safety & Installation Instructions

1. Read this manual carefully before installation.
2. Installation and wiring must be performed by a licensed electrician.
3. Turn off the power supply before installation to avoid electric shock.
4. Ensure ceiling joists are strong enough to support at least 35 kg (77 lb).





Estimated install time: 30–60 minutes

## BEFORE YOU START



What You'll Need:

Drill  
Screwdriver  
Measuring tape  
Utility knife / drywall saw  
Ladder



Safety First:

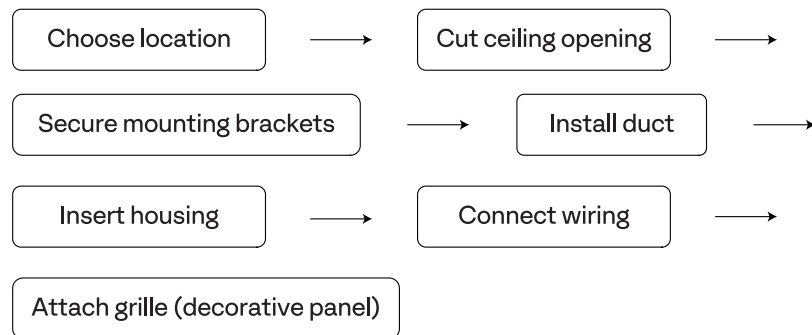
Turn OFF power at the circuit breaker before installation  
Do NOT install near flammable materials  
Ensure proper grounding



Check Before Installation:

Minimum ceiling depth: 7.1 in (180 mm)  
Cut-out size: 10.8 × 10.8 in (275 × 275 mm)  
Duct diameter: 3.9 in (100 mm)

## INSTALLATION OVERVIEW



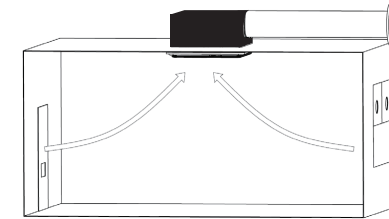
## STEP-BY-STEP INSTALLATION

### STEP 1 — Choose Installation Location

Install above shower or bathtub area

Ensure no pipes, wires, or joists behind ceiling

Keep unit centered for best airflow



### STEP 2 — Cut Ceiling Opening

Use template to mark opening

Cut a 10.8 × 10.8 in hole

Keep at least 12 in (30 cm) from flammable materials

### STEP 3 — Secure Mounting Brackets (Optional)

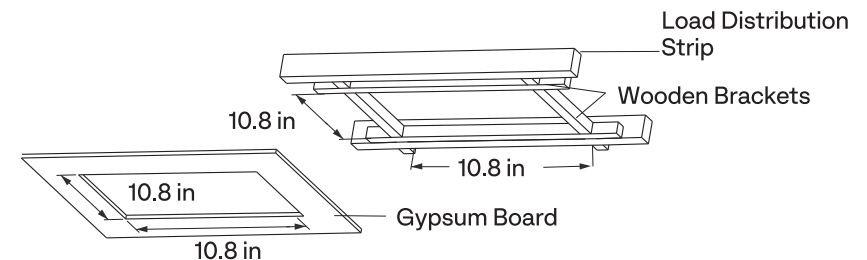
The mounting frame must support at least 44.1 lb (20 kg). The combined thickness of the wood framing and drywall should be 1–1.2 in (25–30 mm).

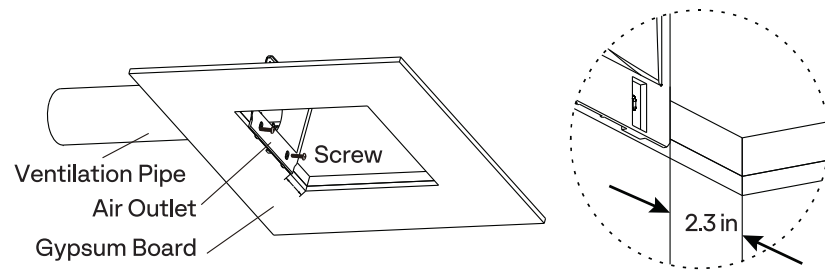
Use a screwdriver to rotate each mounting bracket clockwise

Brackets will extend outward and lock onto the wooden frame

Tighten all three brackets securely

Ensure the unit flange is flush with the ceiling

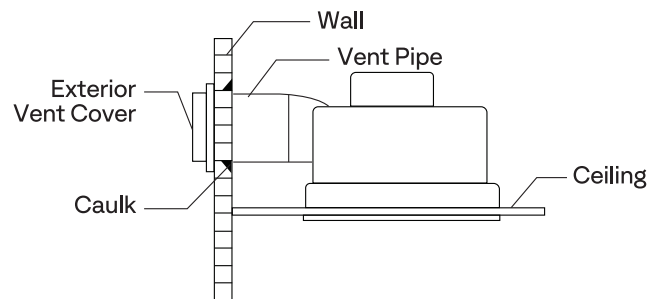




#### STEP 4 — Install Duct

Connect duct to exhaust outlet  
Route duct to exterior wall or roof  
Secure with clamp  
Seal gaps with caulk

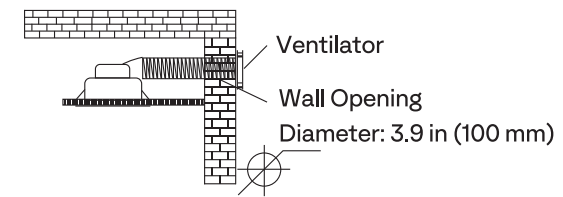
Tip: A slight downward slope helps prevent condensation backflow



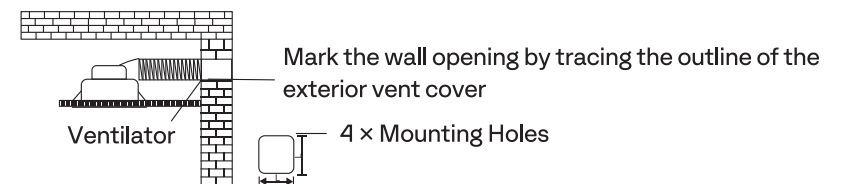
#### EXTERIOR VENT INSTALLATION

Wall Installation  
Drill 3.9 in (100 mm) hole  
Install exterior vent cover  
Secure and seal edges

1. For installations on an exterior wall, install the unit as shown in the following diagrams.



2. For installations not on an exterior wall, follow the diagrams below.



Ensure ventilation ducts are properly installed to prevent the backflow of combustion gases from open-flue gas appliances or other fuel-burning devices.

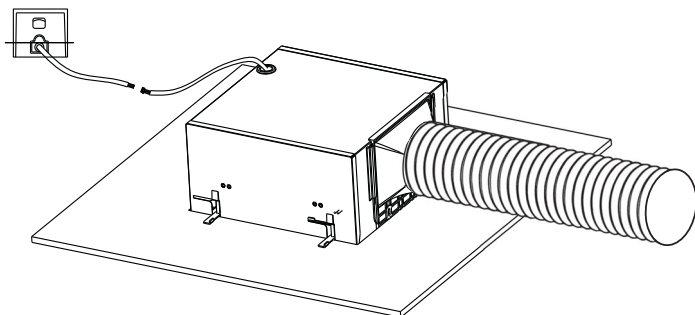
#### STEP 5 — Insert Housing

Insert the main unit into the ceiling opening  
Ensure the unit sits level

## STEP 6 — Connect Electrical Wiring

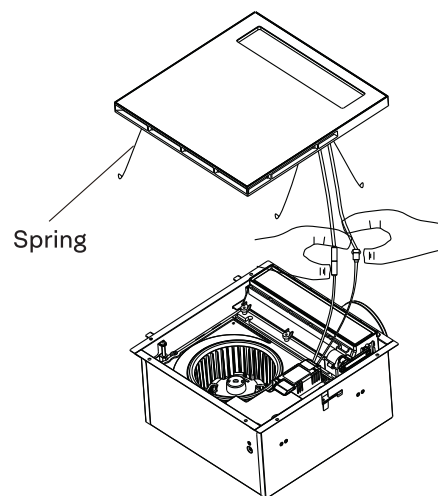
⚠ Power must be OFF

Connect house wiring to the unit terminal  
Ensure proper grounding  
Follow local electrical codes



## STEP 7 — Connect LED & Reinstall Grille

Connect LED light connector to the driver output  
Squeeze the two spring clips and insert into slots  
Reinstall the grille (decorative panel) onto the unit



## STEP 8 — Final Assembly & Check

Align grille before pushing into place  
Ensure wires are not pinched  
Press grille firmly into position

**Congrats! You've done it!**

💡 First Use Tip:

Run the fan for at least 5 minutes before first use to remove any initial odor

## IMPORTANT NOTES

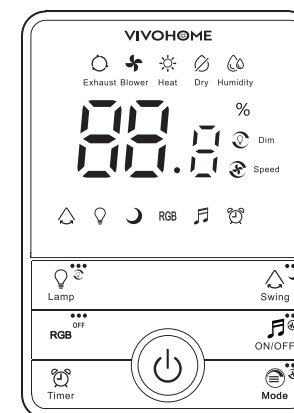
⚠ Backdraft Warning

Prevent airflow from gas appliances entering the room  
Ensure proper ducting and sealing

## Section D



# 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

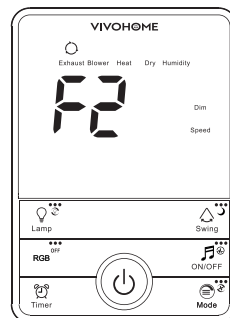
Press to cycle through the following functions: Exhaust → Blower → Heat → Dry-Humidity.

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 unit's onboard display shows the current fan speed level in this mode.

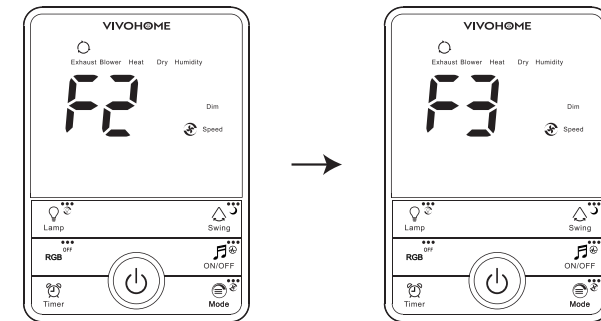


## Fan Speed Adjustment

**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.

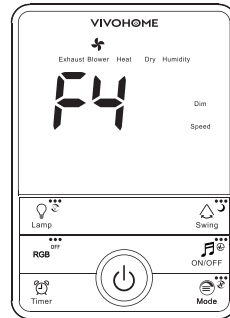
**Auto-Save & Exit:** After 5 seconds of inactivity, the Speed icon will turn off, and the screen will display the current speed level. After another 5 seconds, the remote screen will turn off.



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.

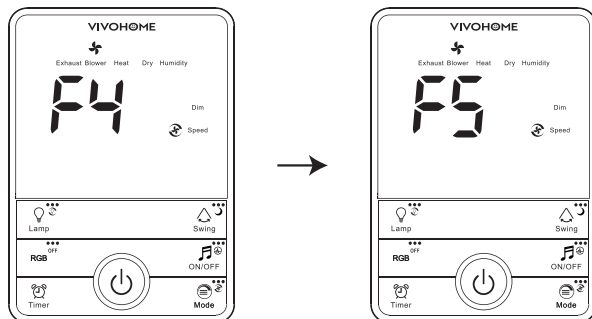


### Fan Speed Adjustment

**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 | $> T + 3^{\circ}\text{C} \rightarrow$ <b>Level 3 (110 CFM), PTC II (Low Heat) ON</b>                                      | Low airflow, low heating, gentle warming                   |
|      | $T < \text{temp} \leq T + 3^{\circ}\text{C} \rightarrow$ <b>Level 4 (140 CFM), PTC I (High Heat) ON</b>                   | Medium airflow, high heating, steady temperature rise      |
|      | $T - 3^{\circ}\text{C} \leq \text{temp} \leq T \rightarrow$ <b>Level 4 (140 CFM), PTC I + PTC II (High + Low Heat) ON</b> | Medium airflow, combined low & high heating, rapid warming |
|      | $< T - 3^{\circ}\text{C} \rightarrow$ <b>Level 5 (160 CFM), PTC I + PTC II (High + Low Heat) ON</b>                       | 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 110 CFM
- Humidity  $> 80\%$ : Airflow at 160 CFM

The main unit display shows F0, F2, or F3 accordingly when activated.

Press once to enable humidity-sensing auto ventilation. Manual speed control function is disabled in this mode.

## Lamp

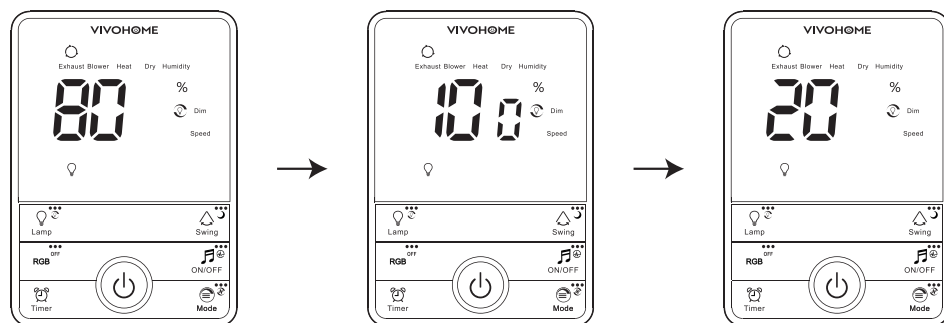
**Lamp:** 2700 K → 4000 K → 5700 K (then repeats).

**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%)



## RGB Light

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 Auto 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

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 2.3 m 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 2.3 m 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 Silent mode, if the fan reduces moisture within about 15 minutes, it is operating normally.

## 2. My previous fan opening is not 10.8\*10.8in (27.4\*27.4cm). Can this fan be installed?

This product fits an opening size of **10.8\*10.8in (27.4\*27.4cm)** and has a panel size of **11.8\*11.8inch (30\*30cm)**.

### If your opening is smaller than 10.8\*10.8in (27.4\*27.4cm):

You can enlarge it using the included template. As long as the opening is **10.8\*10.8in (27.4\*27.4cm) between and 11.8\*11.8inch (30\*30cm)**, the fan can be installed (wood strips can be used for reinforcement if needed).

### If your opening is larger than 11.8\*11.8inch (30\*30cm):

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 G



# 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.