

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!

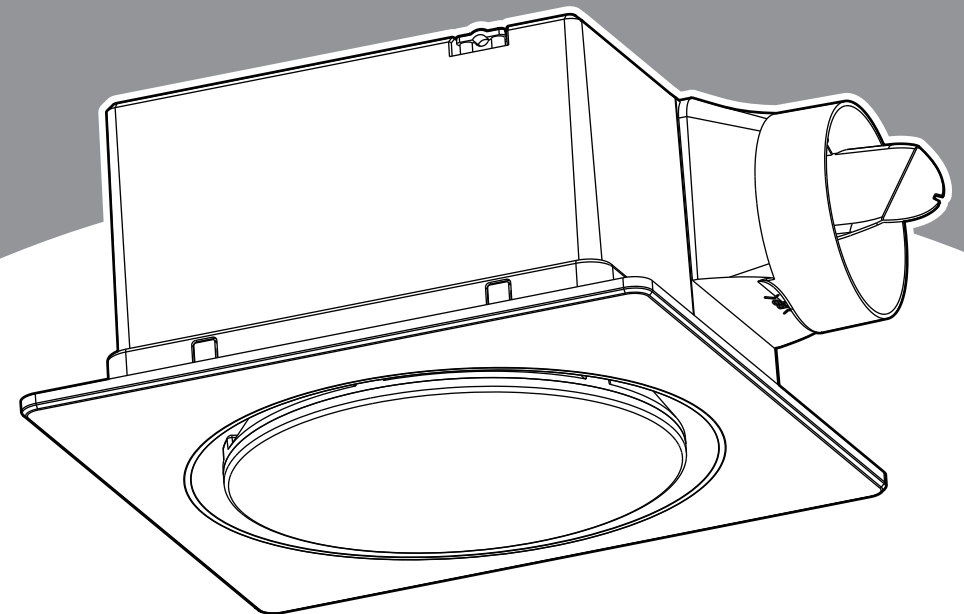
Thank You for Purchasing from

VIVOHOME

Made in China

VIVOHOME

**HOW-TO**  
USER MANUAL



**30-110-160 CFM Bathroom  
Exhaust Fan with LED Light**

**Assembly is EASY!**

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

GO TO THE PRODUCT LISTING PAGE  
FOR AN INSTRUCTIONAL VIDEO!

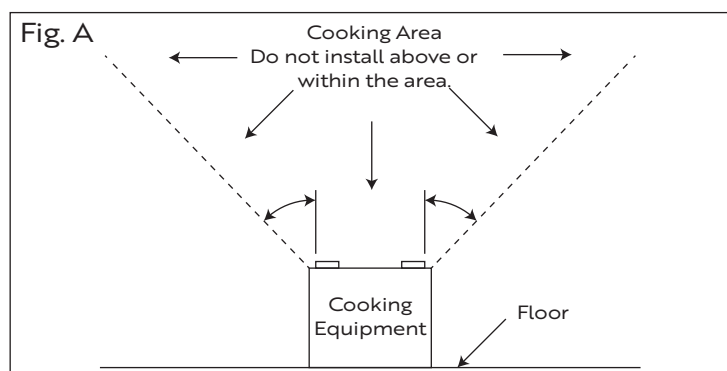
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Please read all instructions thoroughly before installation and use.

1. Ensure the power supply is 110–120V, 60Hz.
2. Do not install in areas where ambient temperature exceed 104°F (40°C).
3. Do not bend, pinch, 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 performing any service.
6. Keep wiring away from sharp edges, oil, grease, and high-temperature surfaces.
7. Do not install where airflow may be obstructed.
8. Ensure proper air intake to support effective ventilation.
9. This product is approved for installation over a shower or bathtub when connected to a GFCI-protected circuit. The GFCI device or switch must be installed in a dry location, out of reach of users while bathing or showering.
10. Do not use the fan to exhaust flammable or explosive vapors.
11. Do not operate the fan with solid-state speed controls.
12. This unit is double insulated and does not require grounding.
13. Do not install in cooking areas. (See Fig. A)

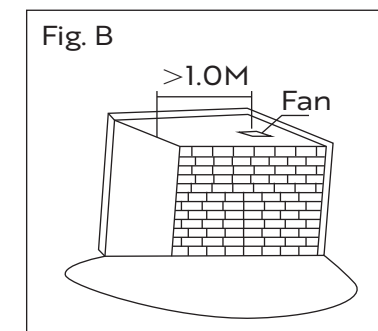


14. Exhaust air must be vented outdoors - not into walls, ceilings, attics, or garages.
15. Install the fan at least 7 feet (2.1 meters) above the floor.

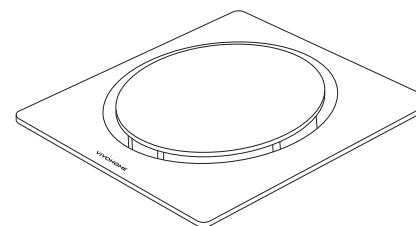
**WARNING: To reduce the risk of fire or electric shock, follow all safety precautions. Do not install the fan in restricted zones.**

16. Use this product only as intended by the manufacturer. For any questions, please contact customer service.
17. Installation must be performed by a qualified technician in accordance with local codes and fire-rated construction requirements.

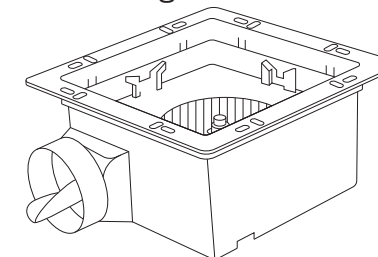
18. When used with gas-powered appliances, ensure proper airflow to prevent backdrafts. Follow NFPA and ASHRAE guidelines.
19. Do not install in ceilings with insulation values greater than R40.
20. During installation, take care not to damage hidden wires or plumbing.
21. Always lock or tag the power source before servicing. If locking is not possible, use a warning tag to indicate that the power should not be turned on.
22. For over-shower or bathtub installation, ensure the product is rated for that use and installed at least 1 meter (3.3 ft) 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).
23. Do not connect to rigid metal conduit; use flexible conduit only.
24. Keep ductwork straight and minimize bends.
25. The diameter of the duct must not be reduced; it must match or exceed the fan outlet size.



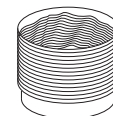
#### 1 Decorative Panel



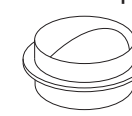
#### 2 Fan Housing



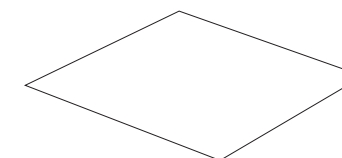
#### 3 Aluminum Foil Duct



#### 4 Backdraft Damper



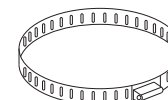
#### 5 Cutout Template



#### 6 Screws ×6



#### 7 Hose Clamps ×2



#### 8 Removable Duct Port



#### 9 Remote Control



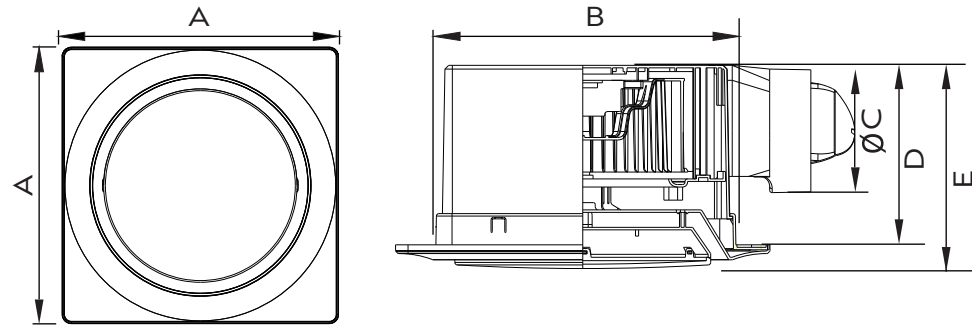


### Product Description

This ceiling-mounted exhaust fan is designed to remove moisture and odors from residential and commercial bathrooms effectively.

### Key Features

- Easy to install
- High airflow capacity
- Ultra-quiet operation
- Compatible with residential and commercial environments
- Can be used in conjunction with HVAC systems

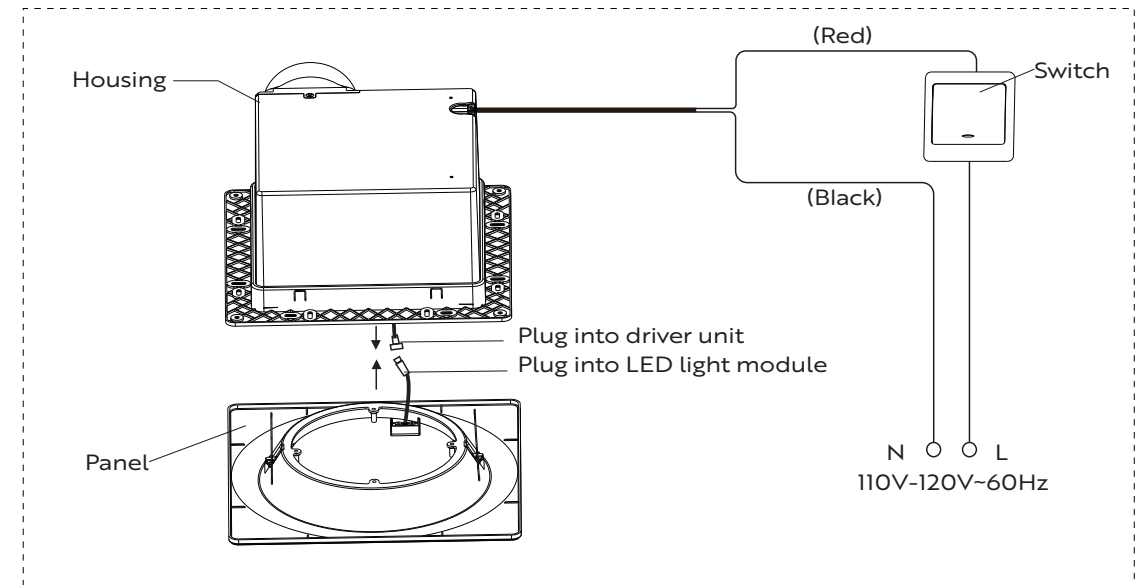
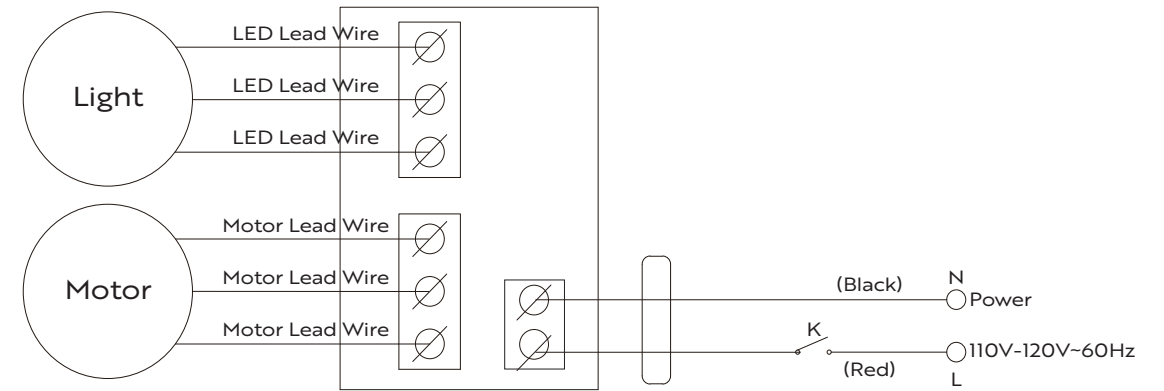
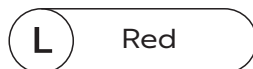


Unit: Inch

Size	A	B	φC	D	E
12"	11.8x11.8	10.2x10.2	φ4	5.7	6.5

### SPECIFICATIONS

SKU	<b>VH1810</b>	Fans Power	<b>45W</b>
Motor Power	<b>45W</b>	Frequency	<b>50-60Hz</b>
Light Power	<b>18W</b>	Air Volume	<b>30-160 CFM</b>
Noise Level	<b>0.1-1-1.5 sone</b>	Airflow Output (CFM)	<b>30-180 CFM</b>
Voltage	<b>110V-120V</b>	Rotate Speed	<b>330-1745 RPM</b>



## PLANNING INSTALLATION

Before starting the installation, ensure that all parts are present. Compare the components with the package contents and hardware list. **Do not proceed** if any parts are missing or damaged.



**WARNING:** Turn off the power at the breaker box before beginning installation.

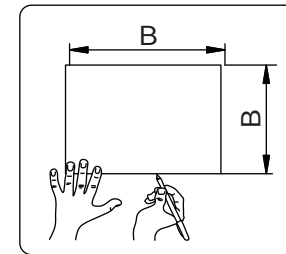


**NOTE:** Wiring configuration may vary depending on your previous fan setup. Some components needed for installation may not be included in the package. Additional materials can be found at your local hardware store.

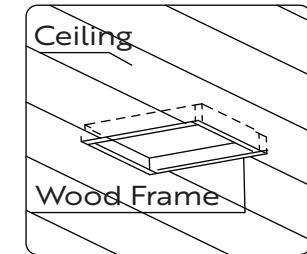
1. Carefully remove the fan from the packaging and verify that all components are included.
2. Verify that the area above the installation location allows for proper wiring, ductwork, and ventilation.
3. Inspect the ductwork and wiring before proceeding with the installation.
4. Choose an installation location that allows access for future maintenance or inspections without having to remove the entire fan.
5. Installation may require two people - one working from the attic and one in the room - to safely position and secure the fan housing.

## SECTION D

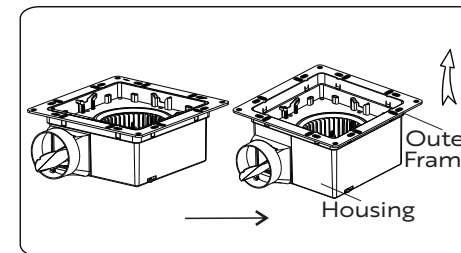
# Installation Template



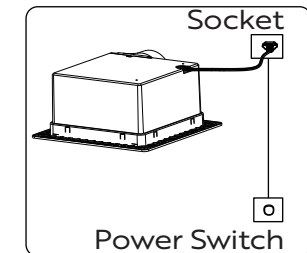
1. Cut the ceiling along the marked track size B\*B.



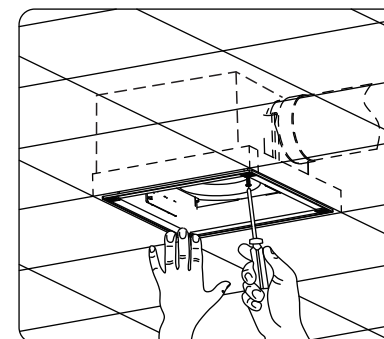
2. Fix the wood frame onto the ceiling.



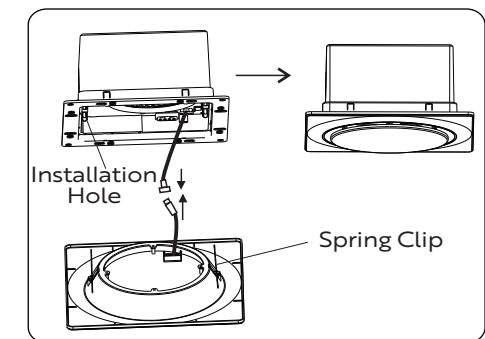
3. Lift the housing and securely snap the outer frame buckle into the groove inside the box. Connect the power either separately to a switch or in parallel with the fan circuit.



4. Plug the power cord into a standard two-prong socket or connect to a switch circuit. Test the connection before final assembly.



5. Screw the base of the fan into the wood frame. Add angle brackets for extra support if needed.

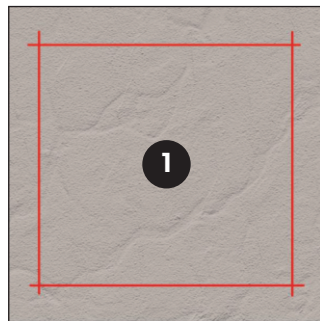


6. Insert the circlip of the light into the preformed hole, then connect the plug on the light with the plug on the driver, and install the panel with the light on the housing.

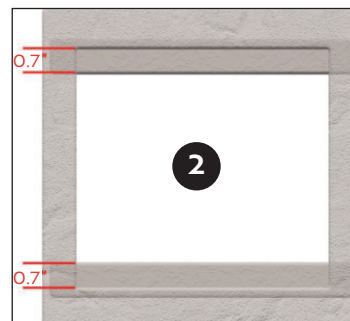
# Installation and Operating Instructions



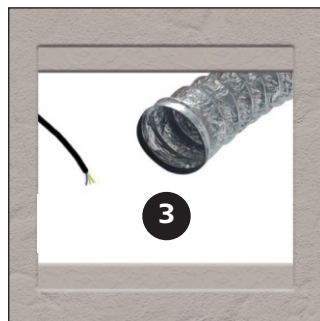
1. If there is already a pre-cut opening in the ceiling, ensure that the maximum size of the square opening does not exceed 11.6 x 11.6 inches.



2. Prepare two wooden strips with sufficient strength, each 3" wide and 14" long. Insert the strips into the ceiling opening, ensuring no more than 0.7" extends beyond the edge. Secure each strip firmly to the ceiling with nails or screws.



3. Set Up Ventilation Duct and Power Cord  
Before proceeding, prepare the ventilation duct and power cord. Connect the ventilation duct to the fan's outlet, and connect the power cord from the fan to the control switch. The control switch will allow you to operate the fan. Refer to the wiring diagram in Chapter 2 for guidance. If you are not familiar with electrical work, please hire a licensed electrician to handle the wiring.



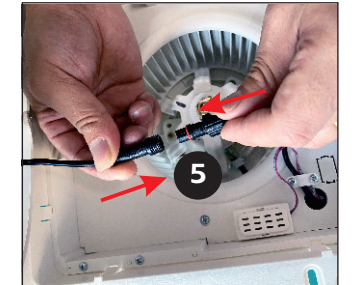
## 4. Install the Fan

Once the duct and wiring are connected, carefully insert the fan into the square opening. Use screws to secure the fan in place, following the direction indicated by the arrow in the provided image.



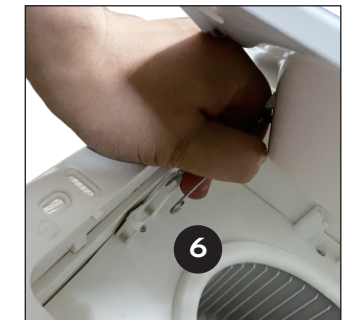
## 5. Connect the LED light

Find the male and female connectors on the fan and light modules, fully insert them, and then tighten the black screws on the wires.



## 6. Attach the Panel

Grip the spring clips on both sides of the panel and align them with the installation holes on the fan unit. Once aligned, firmly secure and fasten the panel into place.



## 7. Installation Complete

Congratulations! Your exhaust fan installation is now complete.



# Ventilation 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 deactivate the fan.

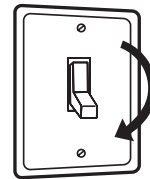
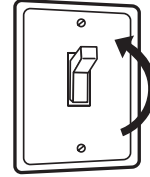
## 3. Remote Control Pairing

To pair the remote control with the fan light:

- When the fan light is powered on and you hear a "beep" sound – within 3 seconds after either powering on or off – press the "Light" button on the remote three or more times within 3 seconds.
- The buzzer will beep again, and the fan light will respond to the remote, indicating that pairing was successful.

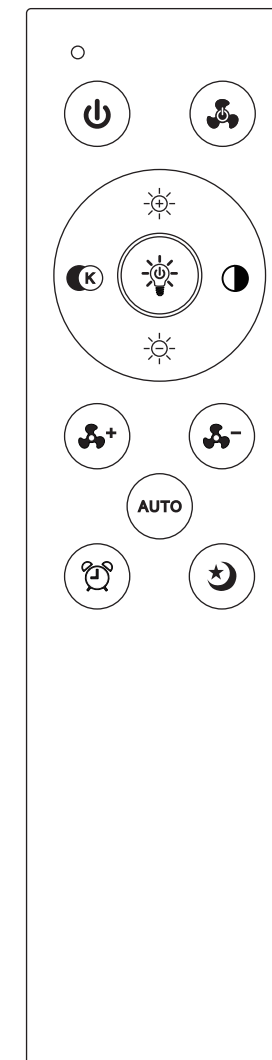
**NOTE:** The product's humidity sensor cannot be manually adjusted. The fan automatically adjusts its airflow based on the surrounding humidity levels.

Mode	Condition / Speed Level	Operating Mode	Airflow (CFM)
Auto (Humidity Sensor Mode)	Less than or equal to 50%	Quiet Mode	30 CFM
	Between 50% and 80%	Normal Mode	110 CFM
	Above 80%	Storm Mode	160 CFM
Manual Mode	Speed Level 1	Quiet Mode	30 CFM
	Speed Level 2	Quiet Mode	50 CFM
	Speed Level 3	Normal Mode	90 CFM
	Speed Level 4	Normal Mode	110 CFM
	Speed Level 5	Storm Mode	120 CFM
	Speed Level 6	Storm Mode	160 CFM



## Lighting Modes

Color Temperature	1500 lm, 2700K Warm Light	1500 lm, 4000K Neutral Light	1500 lm, 6500K Cool White
Brightness	10% / 20% (Dim)	40% / 60% (Medium)	80% / 100% (Bright)
Night Light	200 lm, 2700K at 10% brightness		
Fixed Light (Remote)	1500 lm, 4000K Neutral Light at 100% brightness		



### OFF

When the ventilation fan is ON, press the "OFF" button. The red indicator light on the remote will illuminate once, and the buzzer will sound two beeps. This action will turn off both the fan and the light.

### Fan Switch

Press the "Fan Switch" button to toggle the fan ON or OFF.

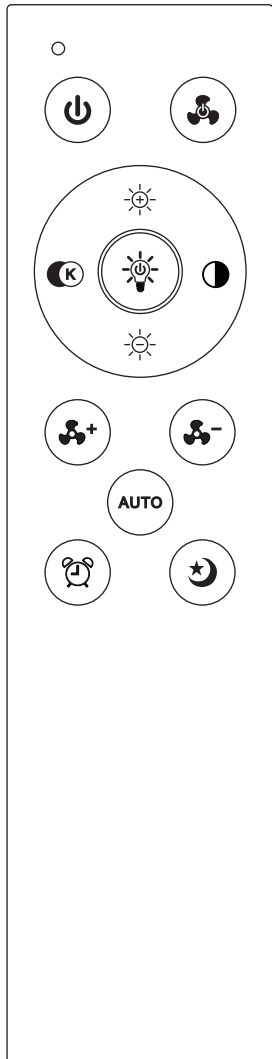
When turned ON, the buzzer will beep once. When turned OFF, the buzzer will beep twice. After turning ON, the fan will automatically enter humidity sensor mode.

### Fan Speed +

When the fan is running, press the "Fan Speed +" button to increase the fan speed by one level. The maximum speed is Level 6.

### Fan Speed -

When the fan is running, press the "Fan Speed -" button to decrease the fan speed by one level. The minimum speed is Level 1.



### AUTO

- The buzzer will beep once.
- The red indicator light on the remote will illuminate once.
- The fan will start automatically in humidity sensor mode.

To switch from AUTO mode to manual mode, press either the "Fan+" or "Fan-" button.

### Light Switch

Press the "Light Switch" button to turn the light ON or OFF.

- The red indicator light will illuminate once.
- The buzzer will beep once.

### Brightness +

When the light is ON, press the "Brightness +" button to increase brightness by one level.

- Maximum brightness: Level 6.

### Brightness -

When the light is ON, press the "Brightness -" button to decrease brightness by one level.

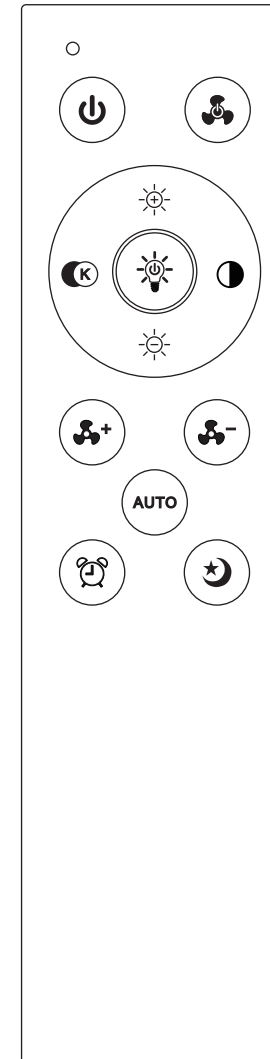
- Minimum brightness: Level 1.

### Colour Temperature Adjusting

When the light is ON, press the "Color Temperature" button to cycle through color temperatures: 2700K → 4000K → 5700K, then repeat.

### Fixed Light

When the light is ON, press the "Fixed Light" button to instantly set the light to: 4000K color temperature at 100% brightness.



### Timer

When the fan light is ON, press the "Timer" button to set a 1-hour timer.

- The red indicator light will illuminate once.
- The buzzer will beep once.
- After one hour, both the fan and light will automatically turn OFF.
- If the timer is already active, pressing the button again will cancel it (buzzer will beep twice).

### Night Lamp

Press the "Night Light" button to activate night mode.

- The red indicator light will illuminate once.
- The buzzer will beep once.
- The light will turn on at 2700K and Level 1 brightness.
- To turn off night mode, press the button again.
- The buzzer will beep twice and the light will turn OFF.

### Silent Setting

To activate silent mode, press both the "Timer" and "Night Light" buttons simultaneously.

- The buzzer will beep once, and all key presses will become silent (no buzzer feedback).

To deactivate silent mode, press both buttons simultaneously again.

- The buzzer will beep twice, and normal sound feedback will resume.

### Note:

#### 1. Auto Start Behavior:

When power is supplied to the unit, the fan will automatically enter AUTO mode, controlled by the temperature and humidity sensors.

Pressing "Fan+" or "Fan-" will switch the fan to manual mode.

Pressing "AUTO" again will return it to sensor-controlled operation.

#### 2. Light Function Shortcuts:

The "Night Lamp" and "Fixed Light" buttons can turn the light on directly—no need to press the "Light Switch" beforehand.

#### 3. Timer End Behavior:

When the 1-hour timer ends, both the fan and the light will turn OFF automatically.



Problem	Solution	
The fan seems louder than it should.	The CFM is too great.	Be sure the CFM rating on the fan matches the square footage of your room.
	The damper is damaged or not working properly.	Check the damper to ensure it is opening and closing properly. If the damper has become damaged, please call Customer Service.
	The bend in the duct is too close to the fan discharge.	Be sure you do not have any sharp bends in the duct closer than 18 in. to the fan discharge.
	The fan discharge is reduced to fit a smaller duct.	Use the recommended size ducting to reduce fan noise.
	The fan body is not attached securely.	Be sure the fan is securely attached to the ceiling joists.
The fan is not clearing the room.	There is insufficient airflow intake in the room.	Be sure a door or window is slightly ajar or opened to allow airflow. The fan is not able to draw air out of the room without enough airflow to draw from.
	There is insufficient CFM.	Be sure the CFM rating on the fan matches the requirements for your room size. <b>NOTE:</b> Using a tissue is not the correct method for determining if the fan is operating properly. If the fan clears steam from the room within approximately 15 minutes of completing your shower, then the fan is operating properly.



1. Read all instructions and safety warnings carefully before beginning installation. Review the exploded view diagram provided.
2. Disconnect power at the circuit breaker or by removing the fuse before performing any electrical work. This ensures full disconnection from the power supply.
3. All electrical work must be performed by a licensed and qualified electrician.
4. Use common sense and exercise caution throughout the installation and operation of this product.
5. This product is not intended for use by individuals (including children) with reduced physical, sensory, or mental capabilities, or those lacking experience and knowledge, unless they are supervised or instructed by a person responsible for their safety.
6. Children must be supervised to ensure they do not play with the appliance.
7. Use a power cord rated for at least 10 amps.
8. Do not cut or notch joists, beams, or rafters to install the fan.
9. Be careful not to damage hidden electrical wiring or plumbing when cutting into the ceiling.
10. Install the fan so that switches and controls are out of reach of anyone using a bath or shower.
11. Do not install the fan directly above a shower or bathtub, or in any location where it could be splashed with water.
12. After installation, verify that all connections are secure to prevent the unit from falling and causing injury or property damage.
13. Do not insert objects through the fascia grille.
14. If the power cord is damaged, it must be replaced by the manufacturer, their service agent, or a qualified electrician using only manufacturer-approved parts.
15. Do not install or use the fan outdoors or in any area where it could be exposed to water or moisture. Indoor use only.
16. The fan should be mounted at least 2.3 meters (7.5 feet) above the floor.
17. A multi-pole switch is required for installation. The gap between contacts must be at least 3 mm.
18. Use vent covers to prevent the entry of water or insects into the ducting system.



1. Turn off the power before performing any maintenance.
2. Remove the louver, cover, and fan blade. Clean these parts with water and a brush. Use a soft cloth and a mild detergent to wipe off grease. Do not use water over 60°C (140°F), petroleum-based products, benzene, thinner, or any other harsh solvents.  
Important: Do not allow water to enter the motor.
3. Dry all cleaned parts thoroughly using a soft dry cloth or allow them to air dry completely. Reassemble all parts in the reverse order of removal.
4. During the warranty period, if the fan malfunctions due to manufacturing defects under normal use, it will be repaired or replaced free of charge.
5. After the warranty period, repair services are not provided, but you may contact our customer support team for maintenance advice.
6. The warranty does not cover the following cases:
  - Use of non-original or third-party replacement parts.
  - Malfunctions caused by incorrect operation, improper maintenance, unauthorized repair, force majeure events, or other external factors.



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.