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> GROWNEER AX254301 Bathroom Exhaust Fan with Heater and Adjustable Light Manual

## GROWNEER AX254301

# GROWNEER AX254301 Bathroom Exhaust Fan with Heater and Adjustable Light Manual

Model: AX254301 | Brand: GROWNEER

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## 1. INTRODUCTION

The GROWNEER AX254301 Bathroom Fan with Light Combo is designed to provide efficient ventilation, rapid heating, and customizable lighting for your bathroom. This unit features a powerful 150 CFM fan, a 550W infrared heater, and a 1000lm LED light with three adjustable color temperatures (3000K/4000K/5000K). Its quiet operation ensures a comfortable environment while effectively managing humidity and temperature.

- **Efficient Airflow:** 150 CFM fan suitable for rooms up to 80 square feet.
- **Rapid Heating:** Two 550W infrared heating bulbs with overheat protection.
- **Adjustable Lighting:** 1000lm LED light with selectable 3000K, 4000K, or 5000K color temperature.
- **Quiet Operation:** Operates at a low 1.5 Sone noise level.

## 2. IMPORTANT SAFETY INFORMATION

Please read and understand all instructions before beginning installation. Failure to follow these instructions may result in electric shock, fire, property damage, or personal injury.

- Always disconnect power at the circuit breaker before installing or servicing the unit.
- All wiring must be performed by a qualified electrician in accordance with all applicable electrical codes and standards.

- Ensure the unit is properly grounded.
- Do not install this unit in a ceiling with less than 2x6 construction.
- Do not use this fan in cooking areas.
- The heater function has built-in overheat protection; it will automatically stop if temperatures become too high.

### 3. WHAT'S IN THE BOX

Verify that all components are present and undamaged before installation.

## What Will You Get



Figure 3.1: Package contents including the fan unit, mounting bracket, duct connector, clamps, gloves, and instruction manual.

- Bathroom Fan Unit with Heater and Light
- Mounting Bracket
- Duct Connector (4.5-inch compatible)
- Hose Clamps (2)
- Protective Gloves
- Cut-out Template
- Instruction Manual

## 4. SPECIFICATIONS

Feature	Specification
Brand	GROWNEER
Model Name	AX254301
Product Dimensions	18.9"D x 11.42"W x 8.66"H
Ceiling Opening Requirements	17.13" x 11.02"
Air Flow Capacity	150 Cubic Feet Per Minute (CFM)
Noise Level	1.5 Sones
Heater Wattage	550W (Infrared Two-Bulb)
Light Output	1000lm
Color Temperature	3000K/4000K/5000K (Adjustable)
Fan Wattage	30 watts
Voltage	120 Volts
Installation Type	Ceiling Mount
Room Type	Bathroom

## 5. SETUP & INSTALLATION

**Before you begin:** Ensure power is disconnected at the circuit breaker. Wear protective gloves provided.

### 5.1 Prepare the Unit

1. **Remove Duct Connector and Wire Cover:** Locate the duct connector and wire cover on the fan housing. Unscrew and remove them to access the internal wiring.
2. **Access Wiring:** The heating element, exhaust fan, and light have separate wiring connections.

Familiarize yourself with the wiring diagram in the manual.

## 5.2 Mounting the Housing

3. **Prepare Ceiling Opening:** Use the provided cut-out template to mark and cut the ceiling opening (17.13" x 11.02"). Ensure the opening is clear of obstructions and suitable for 2x6 ceiling construction.
4. **Install Mounting Bracket:** Secure the mounting bracket to the ceiling joists using appropriate screws. The bracket is designed for secure installation.
5. **Place Fan Housing:** Carefully insert the fan housing into the ceiling opening, ensuring it aligns with the mounting bracket.
6. **Secure Housing:** Adjust the tabs on the fan housing to a vertical position and align them with the slots on the telescopic bracket. Bend the tabs to the side to firmly secure the housing.

## 5.3 Electrical Connections

7. **Connect Wires:** Connect the house wiring to the fan's wiring. The black wire is for the exhaust fan, the blue wire is for the light (white receptacle), and the red wire is for the heater. Ensure all connections are secure and follow local electrical codes.
8. **Reattach Wire Cover:** Once wiring is complete, reattach the wire cover with the short screw.

## 5.4 Ducting

9. **Connect Ventilation Duct:** Attach a 4.5-inch ventilation duct (not included) to the duct connector on the fan housing. Secure it with the provided hose clamps and HVAC tape to ensure an airtight seal.
10. **Route Duct:** Route the ventilation duct to an appropriate exterior vent. An insulated duct is recommended to prevent condensation.

## 5.5 Final Assembly

11. **Connect LED Wires:** Connect the LED and Bluetooth wires from the panel to the corresponding plugs in the fan housing.
12. **Install Light Panel:** Squeeze both sides of the panel spring and insert it into the spring rails in the fan housing. Push the panel up until it sits flush with the ceiling.

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*Video 5.1: Official GROWNEER Installation Guide. This video demonstrates the step-by-step process for installing the bathroom exhaust fan, including wiring and mounting.*

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*Video 5.2: GROWNEER Bathroom Exhaust Fan Installation. This video provides a visual guide to the installation process, focusing on key steps like wiring and duct connection.*

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*Video 5.3: Bathroom Exhaust Fan with Humidity Installation. This video provides a visual guide to the installation process, focusing on key steps like wiring and duct connection.*

## 6. OPERATING INSTRUCTIONS

The GROWNEER AX254301 offers independent control over its fan, heater, and light functions, allowing for customized comfort.

## 6.1 Fan Operation

- The 150 CFM fan can be operated independently to provide efficient ventilation for rooms up to 80 square feet.
- It operates at a quiet 1.5 Sone, ensuring minimal disturbance.



Figure 6.1: Illustration of the 150 CFM powerful airflow, ideal for rooms up to 80 sq. ft.

# 1.5 Sone Ultra-Quite

Enjoy quite comfort with our 1.5 Sone bathroom fan



Figure 6.2: Visual representation of the 1.5 Sone ultra-quiet operation, showing noise levels compared to typical bathroom fans.

## 6.2 Heater Operation

- The two infrared heating bulbs deliver a total of 550W, providing rapid heat.
- The heater function can be activated independently for quick warmth in cold mornings.
- Built-in overheat protection automatically stops the heater if temperatures become too high.

# 550W Powerful Heater

Instantly warms the bathroom—no waiting required



Figure 6.3: Diagram illustrating the 550W powerful heater instantly warming the bathroom, with a temperature rise graph.

## 6.3 Light Operation

- The 1000lm LED light offers three adjustable color temperatures: 3000K (warm white), 4000K (neutral white), and 5000K (cool white).
- To adjust the color temperature, select the desired setting behind the light bulb.



### 3 Color Temperature Selectable

Select the color temperature behind the light bulb to adjust the light color



Figure 6.4: Visual guide to selecting the 3 color temperatures (3000K, 4000K, 5000K) by adjusting a switch behind the light bulb.

## 7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your GROWNEER bathroom fan.

- **Cleaning the Grille:** Periodically wipe the exterior grille with a soft, damp cloth. Do not use abrasive cleaners.
- **Cleaning the Fan Blades:** Disconnect power before attempting to clean fan blades. Remove the light panel and carefully clean any dust or debris from the fan blades.
- **Bulb Replacement:** Ensure power is off before replacing heating bulbs. Use only bulbs of the correct wattage and type as specified in the manual.

## 8. TROUBLESHOOTING

If you encounter issues with your fan, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan does not operate	No power, loose wiring, motor issue	Check circuit breaker, verify wiring connections, contact support if motor is faulty.
Heater not working	Overheat protection activated, faulty bulb, wiring issue	Allow unit to cool, check/replace heating bulbs, verify wiring.
Light does not turn on	Faulty LED, wiring issue, incorrect color temperature setting	Check LED connection, verify wiring, ensure color temperature switch is set correctly.
Excessive noise	Loose fan blades, debris in fan, improper installation	Disconnect power, check for obstructions, ensure fan is securely mounted.

## 9. WARRANTY & SUPPORT

For warranty information or technical support, please contact GROWNEER customer service. Refer to your purchase documentation for specific warranty terms.

**Contact:** Please refer to the contact information provided in your product packaging or on the official GROWNEER website.